RISH ARRICULLAM			HRS	HQD/h-	USD /month	USD /year	Q&A pdf /chapter	HW Help
Mathema	ntics		пко	USD/III	/IIIOIIIII	USD /year	лспарцег	/Chapter
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lindergarte	en Mathematics		140	6	80	800	50	5
#	TOPIC	TITLE						
1	Using and applying number	The numbers 1 to 5						
2	Using and applying number	The numbers 6 to 9						
3	The number system	Ordinal numbers 1 to 9						
4	Using and applying number	Zero and counting numbers 1 to 9						
5	Using and applying number	The number 10						
6	Using and applying number	Numbers 11 to 20						
7	Using and applying number	Using place value to order numbers up to 20						
	Reasoning	Simple addition up to the number 10						
	Reasoning	Simple addition up to the number 20						
	Calculations	Subtraction up to the number 10						
	Calculations	Subtraction by Comparison						
	Length	Compare length by using informal units of measurement						
	Weight/mass	Introducing the concept of mass						
	Lines and angles	Describing position.						
	Lines and angles	Describing position.						
rade 1 Ma	thematics		210	6	120	1200	50	
#	TOPIC	TITLE						
	Using and applying number	The number 10						
	Using and applying number	Numbers 11 to 20						
	Using and applying number	Using place value to order numbers up to 20						
	Calculations	The numbers 20 to 99						
	Calculation 10-100	Counting by 1, 2, 5, and 10 to 100						
6	Reasoning	Simple addition up to the number 10						
	Reasoning	Simple addition up to the number 20						
8	Calculations	Subtraction up to the number 10						
9	Calculations	Subtraction by Comparison						
10	Calculations	Subtraction up to the number 20 and beyond						
11	Addition	Addition to 99						
12	Subtraction	Subtraction up to the number 99						
13	Length	Compare length by using informal units of measurement						
14	Weight/mass	Introducing the concept of mass						
15	Lines and angles	Describing position.						
16	Time, months	Months and seasons of the year						
17	Time, days of week	Days of the week						
18	Time, duration	Duration						
	Time, minutes	Analogue - Telling time - minutes in the hour						
20	Time, units	Units of time						
21	Time, a.m. p.m.	AM and PM time						
1.014								
rade 2 Ma	tnematics		270	6	150	1550	50	5
#	TOPIC	TITLE						
	Using and applying number	Numbers 11 to 20						
2	Using and applying number	Using place value to order numbers up to 20						
3	Calculations	The numbers 20 to 99						
	Calculation 10-100	Counting by 1, 2, 5, and 10 to 100						
	Calculation-larger numbers	The numbers 100 to 999						
	Reasoning	Simple addition up to the number 10						
	Reasoning	Simple addition up to the number 20						
	Calculations	Subtraction up to the number 10						
		·						
	Calculations	Subtraction by Comparison						
	Calculations	Subtraction up to the number 20 and beyond						
	Addition	Addition to 99						
	Subtraction	Subtraction up to the number 99						
	Subtraction	Subtraction with borrowing						
	Subtraction	Subtraction of two-digit numbers Involving comparison.						

SH RRICULLAM			HRS	USD/hr	USD /month	USD /year	Q&A pdf /chapter	HW Help
15	Subtraction	Subtraction up to the number 999 using the renaming method						
16	Calculation-grouping	Multiplication using equal groups						
	Calculation-grouping	Multiplication using repeated addition						
	Calculation-multiplication	The multiplication sign						
	Calculation sharing/division	Strategies for division						
	Calculation-multiples	Multiples of 10 up to 100						
	Multiplication	Multiplication – important facts.						
		Compare length by using informal units of measurement						
	Length	, , , ,						
	Length	Using the metre as a formal unit to measure perimeter Using the formal unit of the centimetre to measure length						
	Length	and perimeter						
	Weight/mass	Introducing the concept of mass						
	Weight/mass	The kilogram						
27	Weight/mass	The gram and net mass						
28	Length	Read and calculate distances on a map using the formal unit kilometre						
29	Lines and angles	Describing position.						
30	Time, months	Months and seasons of the year						
31	Time, days of week	Days of the week						
	Time, duration	Duration						
	Time, minutes	Analogue – Telling time – minutes in the hour						
	Time, units	Units of time						
	Time, a.m. p.m.	AM and PM time						
	Time, quarter to, past	Quarter past and quarter to						
	Time, minutes past the hour	Minutes past						
	Time, minutes to the hour	Minutes to						
	Time, digital, analogue	Comparing analogue and digital time						
	Time, digital	O'clock and half past using digital time						
41	Time, analogue	O'clock and half past on the analogue clock						
42	Time, 24-hour	24 hour time						
43	Data	Pictograms						
44	Data	Bar Charts						
45	Data	Line graphs.						
ade 3 Mai	thematics		300	6	17	5 175	0 5	0
ade 3 Mat		TITLE	300	6	17	5 175	0 5	0
#	TOPIC	TITLE Numbers 11 to 20	300	6	179	5 175	0 5	0
# 1	TOPIC Using and applying number	Numbers 11 to 20	300	6	17	5 175	0 5	0
# 1 2	TOPIC Using and applying number Using and applying number	Numbers 11 to 20 Using place value to order numbers up to 20	300	6	179	5 175	0 5	0
# 1 2 3	TOPIC Using and applying number Using and applying number Calculations	Numbers 11 to 20 Using place value to order numbers up to 20 The numbers 20 to 99	300	6	179	5 175	0 5	0
# 1 2 3 4	TOPIC Using and applying number Using and applying number Calculations Calculation 10-100	Numbers 11 to 20 Using place value to order numbers up to 20 The numbers 20 to 99 Counting by 1, 2, 5, and 10 to 100	300	6	179	5 175	0 5	0
# 1 2 3 4 5	TOPIC Using and applying number Using and applying number Calculations Calculation 10-100 Calculation-larger numbers	Numbers 11 to 20 Using place value to order numbers up to 20 The numbers 20 to 99 Counting by 1, 2, 5, and 10 to 100 The numbers 100 to 999	300	6	17!	5 175	0 5	0
# 1 2 3 4 5 6	TOPIC Using and applying number Using and applying number Calculations Calculation 10-100 Calculation-larger numbers Place value	Numbers 11 to 20 Using place value to order numbers up to 20 The numbers 20 to 99 Counting by 1, 2, 5, and 10 to 100 The numbers 100 to 999 The numbers 1000 to 9999	300	6	179	5 175	0 5	0
# 1 2 3 4 5 6 7	TOPIC Using and applying number Using and applying number Calculations Calculation 10-100 Calculation-larger numbers Place value Counting and numeration	Numbers 11 to 20 Using place value to order numbers up to 20 The numbers 20 to 99 Counting by 1, 2, 5, and 10 to 100 The numbers 100 to 999 The numbers 1000 to 9999 The numbers 10 000 to 99 999	300	6	17:	5 175	0 5	0
# 1 2 3 4 5 6 7 8	TOPIC Using and applying number Using and applying number Calculations Calculation 10-100 Calculation-larger numbers Place value Counting and numeration Counting and numeration	Numbers 11 to 20 Using place value to order numbers up to 20 The numbers 20 to 99 Counting by 1, 2, 5, and 10 to 100 The numbers 100 to 999 The numbers 1000 to 9999 The numbers 10 000 to 99 999 Seven digit numbers	300	6	17:	5 175	0 5	0
# 1 2 3 4 5 6 7 8	TOPIC Using and applying number Using and applying number Calculations Calculation 10-100 Calculation-larger numbers Place value Counting and numeration Counting and numeration Addition	Numbers 11 to 20 Using place value to order numbers up to 20 The numbers 20 to 99 Counting by 1, 2, 5, and 10 to 100 The numbers 100 to 999 The numbers 1000 to 9999 The numbers 10 000 to 99 999 Seven digit numbers Addition to 99	300	6	17:	5 175	0 5	0
# 1 2 3 4 5 6 7 8 9	TOPIC Using and applying number Using and applying number Calculations Calculation 10-100 Calculation-larger numbers Place value Counting and numeration Counting and numeration Addition Subtraction	Numbers 11 to 20 Using place value to order numbers up to 20 The numbers 20 to 99 Counting by 1, 2, 5, and 10 to 100 The numbers 100 to 999 The numbers 1000 to 9999 The numbers 10 000 to 99 999 Seven digit numbers Addition to 99 Subtraction up to the number 99	300	6	17:	5 175	0 5	0
# 1 2 3 4 5 6 7 8 9 10	TOPIC Using and applying number Using and applying number Calculations Calculation 10-100 Calculation-larger numbers Place value Counting and numeration Counting and numeration Addition Subtraction Subtraction	Numbers 11 to 20 Using place value to order numbers up to 20 The numbers 20 to 99 Counting by 1, 2, 5, and 10 to 100 The numbers 100 to 999 The numbers 1000 to 9999 The numbers 10 000 to 99 999 Seven digit numbers Addition to 99 Subtraction up to the number 99 Subtraction with borrowing	300	6	17:	5 175	0 5	0
# 1 2 3 4 5 6 7 8 9 10	TOPIC Using and applying number Using and applying number Calculations Calculation 10-100 Calculation-larger numbers Place value Counting and numeration Counting and numeration Addition Subtraction	Numbers 11 to 20 Using place value to order numbers up to 20 The numbers 20 to 99 Counting by 1, 2, 5, and 10 to 100 The numbers 100 to 999 The numbers 1000 to 9999 The numbers 10 000 to 99 999 Seven digit numbers Addition to 99 Subtraction up to the number 99	300	6	17:	5 175	0 5	0
# 1 2 3 4 5 6 7 8 9 10 11	TOPIC Using and applying number Using and applying number Calculations Calculation 10-100 Calculation-larger numbers Place value Counting and numeration Counting and numeration Addition Subtraction Subtraction	Numbers 11 to 20 Using place value to order numbers up to 20 The numbers 20 to 99 Counting by 1, 2, 5, and 10 to 100 The numbers 100 to 999 The numbers 1000 to 9999 The numbers 10 000 to 99 999 Seven digit numbers Addition to 99 Subtraction up to the number 99 Subtraction with borrowing	3000	6	17:	5 175	0 5	0
# 1 2 3 4 5 6 7 8 9 10 11 12 13	TOPIC Using and applying number Using and applying number Calculations Calculation 10-100 Calculation-larger numbers Place value Counting and numeration Counting and numeration Addition Subtraction Subtraction Subtraction	Numbers 11 to 20 Using place value to order numbers up to 20 The numbers 20 to 99 Counting by 1, 2, 5, and 10 to 100 The numbers 100 to 999 The numbers 1000 to 9999 The numbers 10 000 to 99 999 Seven digit numbers Addition to 99 Subtraction up to the number 99 Subtraction with borrowing Subtraction of two-digit numbers Involving comparison. Addition up to the number 999	3000	6	17:	5 175	0 5	0
# 1 2 3 4 5 6 7 8 9 10 11 12 13	TOPIC Using and applying number Using and applying number Calculations Calculation 10-100 Calculation-larger numbers Place value Counting and numeration Counting and numeration Addition Subtraction Subtraction Subtraction Addition	Numbers 11 to 20 Using place value to order numbers up to 20 The numbers 20 to 99 Counting by 1, 2, 5, and 10 to 100 The numbers 100 to 999 The numbers 1000 to 9999 The numbers 10 000 to 99 999 Seven digit numbers Addition to 99 Subtraction up to the number 99 Subtraction with borrowing Subtraction of two-digit numbers Involving comparison. Addition up to the number 999 Subtraction up to the number 999 Subtraction up to the number 999	3000	6	17:	5 175	0 5	0
# 1 2 3 4 5 6 7 8 9 10 11 12 13	TOPIC Using and applying number Using and applying number Calculations Calculation 10-100 Calculation-larger numbers Place value Counting and numeration Counting and numeration Addition Subtraction Subtraction Subtraction Subtraction Addition Subtraction Subtraction Subtraction Subtraction	Numbers 11 to 20 Using place value to order numbers up to 20 The numbers 20 to 99 Counting by 1, 2, 5, and 10 to 100 The numbers 100 to 999 The numbers 1000 to 9999 The numbers 10 000 to 99 999 Seven digit numbers Addition to 99 Subtraction up to the number 99 Subtraction with borrowing Subtraction of two-digit numbers Involving comparison. Addition up to the number 999 Subtraction up to the number 999 using the renaming method	3000	6	17:	5 175	0 5	0
# 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	TOPIC Using and applying number Using and applying number Calculations Calculations Calculation-larger numbers Place value Counting and numeration Counting and numeration Subtraction Subtraction Subtraction Subtraction Subtraction Addition Subtraction Counting and numeration Counting and numeration Addition Subtraction Calculation Calculation-multiplication	Numbers 11 to 20 Using place value to order numbers up to 20 The numbers 20 to 99 Counting by 1, 2, 5, and 10 to 100 The numbers 100 to 999 The numbers 1000 to 9999 The numbers 10 000 to 99 999 Seven digit numbers Addition to 99 Subtraction up to the number 99 Subtraction with borrowing Subtraction of two-digit numbers Involving comparison. Addition up to the number 999 Subtraction up to the number 999 The number 999 Subtraction up to the number 999 Subtraction up to the number 999 The number 999 Subtraction up to the number 999	3000	6	17:	5 175	0 5	0
# 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	TOPIC Using and applying number Using and applying number Calculations Calculations Calculation-larger numbers Place value Counting and numeration Counting and numeration Subtraction Subtraction Subtraction Subtraction Multiplication Calculation-multiplication Calculation sharing/division	Numbers 11 to 20 Using place value to order numbers up to 20 The numbers 20 to 99 Counting by 1, 2, 5, and 10 to 100 The numbers 100 to 999 The numbers 1000 to 9999 The numbers 10 000 to 99 999 Seven digit numbers Addition to 99 Subtraction up to the number 99 Subtraction with borrowing Subtraction of two-digit numbers Involving comparison. Addition up to the number 999 Subtraction of two-digit numbers Involving comparison.	3000	6	17:	5 175	0 5	
# 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	TOPIC Using and applying number Using and applying number Calculations Calculations Calculation-larger numbers Place value Counting and numeration Counting and numeration Addition Subtraction Subtraction Subtraction Multiplication Calculation-multiplication Calculation-multiples	Numbers 11 to 20 Using place value to order numbers up to 20 The numbers 20 to 99 Counting by 1, 2, 5, and 10 to 100 The numbers 100 to 999 The numbers 1000 to 9999 The numbers 10 000 to 99 999 Seven digit numbers Addition to 99 Subtraction up to the number 99 Subtraction with borrowing Subtraction of two-digit numbers Involving comparison. Addition up to the number 999 Subtraction up to 100 Multiples and factors of whole numbers The multiplication sign Strategies for division Multiples of 10 up to 100	3000	6	17:	5 175	0 5	
# 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	TOPIC Using and applying number Using and applying number Calculations Calculations Calculation-larger numbers Place value Counting and numeration Counting and numeration Addition Subtraction Subtraction Subtraction Multiplication Calculation-multiplication Calculation-multiples Multiplication	Numbers 11 to 20 Using place value to order numbers up to 20 The numbers 20 to 99 Counting by 1, 2, 5, and 10 to 100 The numbers 100 to 999 The numbers 1000 to 9999 The numbers 10 000 to 99 999 Seven digit numbers Addition to 99 Subtraction up to the number 99 Subtraction with borrowing Subtraction of two-digit numbers Involving comparison. Addition up to the number 999 Subtraction up to 100 Multiples of 10 up to 100 Multiplication - important facts.	3000	6	17:	5 175	0 5	
# 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	TOPIC Using and applying number Using and applying number Calculations Calculations Calculation-larger numbers Place value Counting and numeration Counting and numeration Addition Subtraction Subtraction Subtraction Subtraction Multiplication Calculation-multiplication Calculation-multiples Multiplication Problems	Numbers 11 to 20 Using place value to order numbers up to 20 The numbers 20 to 99 Counting by 1, 2, 5, and 10 to 100 The numbers 100 to 999 The numbers 1000 to 9999 The numbers 10 000 to 99 999 Seven digit numbers Addition to 99 Subtraction up to the number 99 Subtraction with borrowing Subtraction of two-digit numbers Involving comparison. Addition up to the number 999 Subtraction up to the number 999 Multiples and factors of whole numbers The multiplication sign Strategies for division Multiples of 10 up to 100 Multiplication – important facts. Solve and record division using known facts and sharing	3000	6	179	5 175	0 5	
# 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	TOPIC Using and applying number Using and applying number Calculations Calculation 10-100 Calculation-larger numbers Place value Counting and numeration Counting and numeration Addition Subtraction Subtraction Subtraction Multiplication Calculation-multiplication Calculation-multiples Multiplication Problems Multiplication Problems Multiplication	Numbers 11 to 20 Using place value to order numbers up to 20 The numbers 20 to 99 Counting by 1, 2, 5, and 10 to 100 The numbers 100 to 999 The numbers 1000 to 9999 The numbers 10 000 to 99 999 Seven digit numbers Addition to 99 Subtraction up to the number 99 Subtraction with borrowing Subtraction of two-digit numbers Involving comparison. Addition up to the number 999 Subtraction up to the number 999 Multiples and factors of whole numbers The multiplication sign Strategies for division Multiples of 10 up to 100 Multiplication – important facts. Solve and record division using known facts and sharing Multiplication using extended algorithms.	3000	6	179	5 175	0 5	
# 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	TOPIC Using and applying number Using and applying number Calculations Calculations Calculation-larger numbers Place value Counting and numeration Counting and numeration Addition Subtraction Subtraction Subtraction Subtraction Multiplication Calculation-multiplication Calculation-multiples Multiplication Problems	Numbers 11 to 20 Using place value to order numbers up to 20 The numbers 20 to 99 Counting by 1, 2, 5, and 10 to 100 The numbers 100 to 999 The numbers 1000 to 9999 The numbers 10 000 to 99 999 Seven digit numbers Addition to 99 Subtraction up to the number 99 Subtraction with borrowing Subtraction of two-digit numbers Involving comparison. Addition up to the number 999 Subtraction up to 100 Multiplication sign Strategies for division Multiples of 10 up to 100 Multiplication – important facts. Solve and record division using known facts and sharing Multiplication using extended algorithms. Division with and without a remainder.	3000	6	179	5 175	0 5	
# 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	TOPIC Using and applying number Using and applying number Calculations Calculation 10-100 Calculation-larger numbers Place value Counting and numeration Counting and numeration Addition Subtraction Subtraction Subtraction Multiplication Calculation-multiplication Calculation-multiples Multiplication Problems Multiplication Problems Multiplication	Numbers 11 to 20 Using place value to order numbers up to 20 The numbers 20 to 99 Counting by 1, 2, 5, and 10 to 100 The numbers 100 to 999 The numbers 1000 to 9999 The numbers 10 000 to 99 999 Seven digit numbers Addition to 99 Subtraction up to the number 99 Subtraction with borrowing Subtraction of two-digit numbers Involving comparison. Addition up to the number 999 Subtraction up to the number 999 Multiples and factors of whole numbers The multiplication sign Strategies for division Multiples of 10 up to 100 Multiplication – important facts. Solve and record division using known facts and sharing Multiplication using extended algorithms.	3000	6	179	5 175	0 5	

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	Decimals	Comparing and ordering decimals to two decimal places	TIICO	OOD/III	monun	OOD / year	Tonapici	лопарк
	Fractions	Using fractions 1/2, 1/4, 1/8 to describe part of a whole						
	Fractions	Using fractions 1/2, 1/4, 1/8 to describe parts of a group or collection						
	Length	Compare length by using informal units of measurement						
	Length	Using the metre as a formal unit to measure perimeter						
		Using the formal unit of the centimetre to measure length						
	Length Weight (mass	and perimeter						
	Weight/mass	Introducing the concept of mass						
	Weight/mass	The kilogram						
	Weight/mass	The gram and net mass Converting between volume and capacity using millilitres						
	Capacity	and litres Read and calculate distances on a map using the formal						
35	Length	unit kilometre						
	Lines and angles	Describing position.						
37	Time, minutes	Analogue – Telling time – minutes in the hour						
38	Time, units	Units of time						
39	Time, a.m. p.m.	AM and PM time						
40	Time, quarter to, past	Quarter past and quarter to						
	Time, minutes past the hour	Minutes past						
42	Time, minutes to the hour	Minutes to						
43	Time, digital, analogue	Comparing analogue and digital time						
44	Time, digital	O'clock and half past using digital time						
45	Time, analogue	O'clock and half past on the analogue clock						
46	2-D shapes	Recognise and name triangles						
47	2-D shapes	Spatial properties of quadrilaterals						
48	2-D shapes	Using the prefix to determine polygons						
49	3-D shapes	Constructing models.						
50	3-D shapes	Recognise and name prisms according to spatial properties						
51	3-D shapes	Recognise and name pyramids according to spatial properties						
52	3-D shapes	Recognise nets for prisms, pyramids, cubes and cones						
53	3-D shapes	Viewing 3-D shapes.						
54	Data	Pictograms						
55	Data	Bar Charts						
56	Data	Line graphs.						
ade 4 Ma	thematics		350	6	200	200	0 50)
#	TOPIC	TITLE						
	Calculation-larger numbers	The numbers 100 to 999						
	Place value	The numbers 1000 to 9999						
	Counting and numeration	The numbers 10 000 to 99 999						
U	Counting and Hameration	Seven digit numbers						
Λ	Counting and numeration	SOFT OF THE PROPERTY OF THE PR						
	Counting and numeration Subtraction	Subtraction with borrowing						
5	Subtraction	Subtraction with borrowing						
5 6		Subtraction of two-digit numbers Involving comparison. Addition up to the number 999						
5 6 7	Subtraction Subtraction	Subtraction of two-digit numbers Involving comparison.						
5 6 7 8	Subtraction Subtraction Addition	Subtraction of two-digit numbers Involving comparison. Addition up to the number 999 Subtraction up to the number 999 using the renaming method Addition to 9999 and beyond						
5 6 7 8 9	Subtraction Subtraction Addition Subtraction	Subtraction of two-digit numbers Involving comparison. Addition up to the number 999 Subtraction up to the number 999 using the renaming method						
5 6 7 8 9	Subtraction Subtraction Addition Subtraction Counting and numeration Subtraction	Subtraction of two-digit numbers Involving comparison. Addition up to the number 999 Subtraction up to the number 999 using the renaming method Addition to 9999 and beyond Subtraction involving four digit numbers and beyond using the renaming method.						
5 6 7 8 9 10	Subtraction Subtraction Addition Subtraction Counting and numeration	Subtraction of two-digit numbers Involving comparison. Addition up to the number 999 Subtraction up to the number 999 using the renaming method Addition to 9999 and beyond Subtraction involving four digit numbers and beyond using						
5 6 7 8 9 10 11 12	Subtraction Subtraction Addition Subtraction Counting and numeration Subtraction Multiplication	Subtraction of two-digit numbers Involving comparison. Addition up to the number 999 Subtraction up to the number 999 using the renaming method Addition to 9999 and beyond Subtraction involving four digit numbers and beyond using the renaming method. Multiples and factors of whole numbers						
5 6 7 8 9 10 11 12 13	Subtraction Subtraction Addition Subtraction Counting and numeration Subtraction Multiplication Problems	Subtraction of two-digit numbers Involving comparison. Addition up to the number 999 Subtraction up to the number 999 using the renaming method Addition to 9999 and beyond Subtraction involving four digit numbers and beyond using the renaming method. Multiples and factors of whole numbers Solve and record division using known facts and sharing Multiplication using extended algorithms. Division with and without a remainder.						
5 6 7 8 9 10 11 12 13	Subtraction Subtraction Addition Subtraction Counting and numeration Subtraction Multiplication Problems Multiplication	Subtraction of two-digit numbers Involving comparison. Addition up to the number 999 Subtraction up to the number 999 using the renaming method Addition to 9999 and beyond Subtraction involving four digit numbers and beyond using the renaming method. Multiples and factors of whole numbers Solve and record division using known facts and sharing Multiplication using extended algorithms.						
5 6 7 8 9 10 11 12 13 14	Subtraction Subtraction Addition Subtraction Counting and numeration Subtraction Multiplication Problems Multiplication Division	Subtraction of two-digit numbers Involving comparison. Addition up to the number 999 Subtraction up to the number 999 using the renaming method Addition to 9999 and beyond Subtraction involving four digit numbers and beyond using the renaming method. Multiples and factors of whole numbers Solve and record division using known facts and sharing Multiplication using extended algorithms. Division with and without a remainder. Dividing two and three digit numbers by a single digit number.						
5 6 7 8 9 10 11 12 13 14 15	Subtraction Subtraction Addition Subtraction Counting and numeration Subtraction Multiplication Problems Multiplication Division Multiplication Multiplication	Subtraction of two-digit numbers Involving comparison. Addition up to the number 999 Subtraction up to the number 999 using the renaming method Addition to 9999 and beyond Subtraction involving four digit numbers and beyond using the renaming method. Multiples and factors of whole numbers Solve and record division using known facts and sharing Multiplication using extended algorithms. Division with and without a remainder. Dividing two and three digit numbers by a single digit number. Multiplication by 2 and 3 digits						
5 6 7 8 9 10 11 12 13 14 15 16	Subtraction Subtraction Addition Subtraction Counting and numeration Subtraction Multiplication Problems Multiplication Division Multiplication Division Division	Subtraction of two-digit numbers Involving comparison. Addition up to the number 999 Subtraction up to the number 999 using the renaming method Addition to 9999 and beyond Subtraction involving four digit numbers and beyond using the renaming method. Multiples and factors of whole numbers Solve and record division using known facts and sharing Multiplication using extended algorithms. Division with and without a remainder. Dividing two and three digit numbers by a single digit number. Multiplication by 2 and 3 digits Divide whole numbers by a 2 digit divisor						
5 6 7 8 9 10 11 12 13 14 15 16 17 18	Subtraction Subtraction Addition Subtraction Counting and numeration Subtraction Multiplication Problems Multiplication Division Multiplication Multiplication	Subtraction of two-digit numbers Involving comparison. Addition up to the number 999 Subtraction up to the number 999 using the renaming method Addition to 9999 and beyond Subtraction involving four digit numbers and beyond using the renaming method. Multiples and factors of whole numbers Solve and record division using known facts and sharing Multiplication using extended algorithms. Division with and without a remainder. Dividing two and three digit numbers by a single digit number. Multiplication by 2 and 3 digits						

RISH ARRICULLAM			HRS	USD/hr	USD /month	USD /year	Q&A pdf /chapter	HW Help
21	Division/repeat subtraction	Repeated subtraction with divisors less than 20 with no remainders						
	Division/repeat subtraction	Repeated subtraction by multiples of 10 with divisors less than 20 with no remainders						
	Division/repeat subtraction	Repeated subtraction by multiples of 2, 3 and 4 with divisors greater than 20 with no remainders						
		Repeated subtraction by multiples of 1,2 and 3 with						
24	Division/repeat subtraction	divisors less than 20 with remainders Repeated subtraction by multiples of 10 with divisors less						
25	Division/repeat subtraction	than 20 with remainders Repeated subtraction with divisors greater than 20 with						
26	Division/repeat subtraction	remainders as fractions Repeated subtraction with divisors less than 35 with some						
27	Division/repeat subtraction	remainders						
28	Division/repeat subtraction	Repeated subtraction with divisors less than 55 with dividends of 3 and 4-digits with some remainders						
29	Division/repeat subtraction	Repeated subtraction with divisors greater than 50 with dividends of thousands and some remainders						
30	Division/repeat subtraction	Using divide, multiply and subtraction in the bring down method						
31	Decimals	Multiplying decimals by 10, 100 and 1000						
32	Decimals	Dividing decimals by 10, 100 and 1000						
33	Decimals	Introduction to decimals						
34	Decimals	Comparing and ordering decimals to two decimal places						
35	Decimals	Decimals with whole numbers 10th and 100th						
36	Decimals	Adding decimals to two decimal places						
37	Decimals	Subtracting decimals to two decimal places						
38	Decimals	Using decimals – shopping problems						
39	Decimals	Using decimals to record length						
40	Fractions	Using fractions 1/2, 1/4, 1/8 to describe part of a whole						
		Using fractions 1/2, 1/4, 1/8 to describe parts of a group						
41	Fractions	or collection						
42	Fractions	Comparing and ordering fractions						
43	Fractions	mixed numbers (mixed numerals)						
44	Fractions	Improper fractions						
45	Fractions	Fractions 1/5, 1/10, 1/100						
46	Fractions	Finding equivalent fractions						
47	Fractions	Multiplying and dividing to obtain equivalent fractions						
48	Fractions	Reducing fractions to lowest equivalent form						
49	Fractions	Comparing and ordering fractions greater than (>) 1						
50	Sign word problems	Solving Word Problems by recognising Sign Words						
51	Equations	Problem solving strategies						
52	Number problems	Problems with numbers.						
53	Money	Problems involving money						
54	Length	Using the metre as a formal unit to measure perimeter						
55	Length	Using the formal unit of the centimetre to measure length and perimeter						
56	Length	Compare and convert formal units of measurement						
57	Weight/mass	The kilogram						
58	Weight/mass	The gram and net mass						
59	Weight/mass	The tonne – converting units and problems						
60	Capacity	Converting between volume and capacity using millilitres and litres						
61	Capacity	Using the cubic cm and displacement to measure volume and capacity						
62	Capacity	Using the cubic cm as a standard unit of measurement for volume and capacity						
63	Capacity	The relationship between the common units of capacity, the litre and the millilitre						
64	Capacity	Converting between volume and capacity using kilolitres and litres						
	Capacity	Estimate, measure and compare the capacity of containers						
	Area	Introduction to the square centimetre.						
	Area	Introducing the rules for finding the area of a rectangle and a parallelogram.						
	Area	Finding the area of a triangle and other composite shapes.						
	Area	Larger areas: square metre, hectare, square kilometre.						
	Lines and angles	Describing position.						

ICULLAM			HRS	USD/hr	USD /month	USD /year	Q&A pdf /chapter	HW Hel
	Lines and angles	Mapping and grid references				,	P	
	Lines and angles	Main and intermediate compass points						
73	Length	Problems with length.						
74	Mass	Problems with mass.						
75	Area	Problems with area.						
76	Volume/capacity	Problems with volume/capacity.						
	Time, digital, analogue	Comparing analogue and digital time						
	Time, digital	O'clock and half past using digital time						
	Time, analogue	O'clock and half past on the analogue clock						
	Time, 24-hour	24 hour time						
	Time zones	Time zones						
	2-D shapes	Recognise and name triangles						
	2-D shapes	Spatial properties of quadrilaterals						
	Geometry-quadrilaterals	Quadrilaterals						
	2-D shapes	Using the prefix to determine polygons						
	Tessellating 2-D shapes	Use grids to enlarge/reduce 2D shapes						
00	resseriating 2-D shapes	Recognise and name prisms according to spatial						
87	3-D shapes	properties						
QQ	3-D shapes	Recognise and name pyramids according to spatial properties						
	3-D shapes	Recognise nets for prisms, pyramids, cubes and cones						
	3-D snapes 3-D shapes	Viewing 3-D shapes.						
	·							
	Angles Geometry-angles	Measuring angles						
		Measuring angles						
	Data	Pictograms						
	Data	Bar Charts						
	Data Data	Line graphs. Pie and bar graphs.						
le 5 Ma	thematics		350	6	200	2000	50	
le 5 Ma	thematics TOPIC	TITLE	350	6	200	2000	50	
#		TITLE The numbers 1000 to 9999	350	6	200	2000	50	
# 1	TOPIC		350	6	200	2000	50	
# 1 2	TOPIC Place value	The numbers 1000 to 9999	350	6	200	2000	50	
# 1 2 3	TOPIC Place value Counting and numeration	The numbers 1000 to 9999 The numbers 10 000 to 99 999	350	6	200	2000	50	
# 1 2 3 4	TOPIC Place value Counting and numeration Counting and numeration	The numbers 1000 to 9999 The numbers 10 000 to 99 999 Seven digit numbers Addition to 9999 and beyond Subtraction involving four digit numbers and beyond using		6	200	2000	50	
# 1 2 3 4	TOPIC Place value Counting and numeration Counting and numeration Counting and numeration Subtraction	The numbers 1000 to 9999 The numbers 10 000 to 99 999 Seven digit numbers Addition to 9999 and beyond Subtraction involving four digit numbers and beyond using the renaming method.		6	200	2000	50	
# 1 2 3 4 5 6	TOPIC Place value Counting and numeration Counting and numeration Counting and numeration Subtraction Multiplication	The numbers 1000 to 9999 The numbers 10 000 to 99 999 Seven digit numbers Addition to 9999 and beyond Subtraction involving four digit numbers and beyond using the renaming method. Multiplying 2-digit numbers by multiple of 10		6	200	2000	50	
# 1 2 3 4 5 6	TOPIC Place value Counting and numeration Counting and numeration Counting and numeration Subtraction Multiplication Multiplication	The numbers 1000 to 9999 The numbers 10 000 to 99 999 Seven digit numbers Addition to 9999 and beyond Subtraction involving four digit numbers and beyond using the renaming method. Multiplying 2-digit numbers by multiple of 10 Multiplying 3 and 4-digit numbers by multiples of 100		6	200	2000	50	
# 1 2 3 4 5 6 7 8	TOPIC Place value Counting and numeration Counting and numeration Counting and numeration Subtraction Multiplication Multiplication Multiplication	The numbers 1000 to 9999 The numbers 10 000 to 99 999 Seven digit numbers Addition to 9999 and beyond Subtraction involving four digit numbers and beyond using the renaming method. Multiplying 2-digit numbers by multiple of 10 Multiplying 3 and 4-digit numbers by multiples of 100 Multiplying 2-digit numbers by 2-digit numbers		6	200	2000	50	
# 1 2 3 4 5 6 7 8 9	TOPIC Place value Counting and numeration Counting and numeration Counting and numeration Subtraction Multiplication Multiplication Multiplication Multiplication Multiplication Multiplication	The numbers 1000 to 9999 The numbers 10 000 to 99 999 Seven digit numbers Addition to 9999 and beyond Subtraction involving four digit numbers and beyond using the renaming method. Multiplying 2-digit numbers by multiple of 10 Multiplying 3 and 4-digit numbers by multiples of 100 Multiplying 2-digit numbers by 2-digit numbers Multiplying 4-digit numbers by 3-digit numbers		6	200	2000	50	
# 1 2 3 4 5 6 7 8 9	TOPIC Place value Counting and numeration Counting and numeration Counting and numeration Subtraction Multiplication Multiplication Multiplication Multiplication Multiplication Multiplication Multiplication	The numbers 1000 to 9999 The numbers 10 000 to 99 999 Seven digit numbers Addition to 9999 and beyond Subtraction involving four digit numbers and beyond using the renaming method. Multiplying 2-digit numbers by multiple of 10 Multiplying 3 and 4-digit numbers by multiples of 100 Multiplying 2-digit numbers by 2-digit numbers Multiplying 4-digit numbers by 3-digit numbers Multiplying 4-digit numbers by 4-digit number Repeated subtraction with divisors less than 20 with no		6	200	2000	50	
# 1 2 3 4 5 6 7 8 9 10	TOPIC Place value Counting and numeration Counting and numeration Counting and numeration Subtraction Multiplication Multiplication Multiplication Multiplication Multiplication Multiplication Division/repeat subtraction	The numbers 1000 to 9999 The numbers 10 000 to 99 999 Seven digit numbers Addition to 9999 and beyond Subtraction involving four digit numbers and beyond using the renaming method. Multiplying 2-digit numbers by multiple of 10 Multiplying 3 and 4-digit numbers by multiples of 100 Multiplying 2-digit numbers by 2-digit numbers Multiplying 4-digit numbers by 3-digit numbers Multiplying 4-digit numbers by 4-digit number Repeated subtraction with divisors less than 20 with no remainders Repeated subtraction by multiples of 10 with divisors less		6	200	2000	50	
# 1 2 3 4 5 6 7 8 9 10 11	TOPIC Place value Counting and numeration Counting and numeration Counting and numeration Subtraction Multiplication Multiplication Multiplication Multiplication Multiplication Division/repeat subtraction	The numbers 1000 to 9999 The numbers 10 000 to 99 999 Seven digit numbers Addition to 9999 and beyond Subtraction involving four digit numbers and beyond using the renaming method. Multiplying 2-digit numbers by multiple of 10 Multiplying 3 and 4-digit numbers by multiples of 100 Multiplying 2-digit numbers by 2-digit numbers Multiplying 4-digit numbers by 3-digit numbers Multiplying 4-digit numbers by 4-digit number Repeated subtraction with divisors less than 20 with no remainders Repeated subtraction by multiples of 10 with divisors less than 20 with no remainders Repeated subtraction by multiples of 2, 3 and 4 with		6	200	2000	50	
# 1 2 3 4 5 6 7 8 9 10 11 12	Place value Counting and numeration Counting and numeration Counting and numeration Counting and numeration Subtraction Multiplication Multiplication Multiplication Multiplication Multiplication Division/repeat subtraction Division/repeat subtraction	The numbers 1000 to 9999 The numbers 10 000 to 99 999 Seven digit numbers Addition to 9999 and beyond Subtraction involving four digit numbers and beyond using the renaming method. Multiplying 2-digit numbers by multiple of 10 Multiplying 3 and 4-digit numbers by multiples of 100 Multiplying 2-digit numbers by 2-digit numbers Multiplying 4-digit numbers by 3-digit numbers Multiplying 4-digit numbers by 4-digit number Repeated subtraction with divisors less than 20 with no remainders Repeated subtraction by multiples of 10 with divisors less than 20 with no remainders Repeated subtraction by multiples of 2, 3 and 4 with divisors greater than 20 with no remainders Repeated subtraction by multiples of 1,2 and 3 with		6	200	2000	50	
# 1 2 3 4 5 6 7 8 9 10 11 12 13	Place value Counting and numeration Counting and numeration Counting and numeration Counting and numeration Subtraction Multiplication Multiplication Multiplication Multiplication Multiplication Division/repeat subtraction Division/repeat subtraction Division/repeat subtraction	The numbers 1000 to 9999 The numbers 10 000 to 99 999 Seven digit numbers Addition to 9999 and beyond Subtraction involving four digit numbers and beyond using the renaming method. Multiplying 2-digit numbers by multiple of 10 Multiplying 3 and 4-digit numbers by multiples of 100 Multiplying 2-digit numbers by 2-digit numbers Multiplying 4-digit numbers by 3-digit numbers Multiplying 4-digit numbers by 4-digit number Repeated subtraction with divisors less than 20 with no remainders Repeated subtraction by multiples of 10 with divisors less than 20 with no remainders Repeated subtraction by multiples of 2, 3 and 4 with divisors greater than 20 with no remainders Repeated subtraction by multiples of 1,2 and 3 with divisors less than 20 with remainders Repeated subtraction by multiples of 10 with divisors less		6	200	2000	50	
# 1 2 3 4 5 6 7 8 9 10 11 12 13 14	Place value Counting and numeration Counting and numeration Counting and numeration Counting and numeration Subtraction Multiplication Multiplication Multiplication Multiplication Multiplication Division/repeat subtraction Division/repeat subtraction Division/repeat subtraction Division/repeat subtraction Division/repeat subtraction	The numbers 1000 to 9999 The numbers 10 000 to 99 999 Seven digit numbers Addition to 9999 and beyond Subtraction involving four digit numbers and beyond using the renaming method. Multiplying 2-digit numbers by multiple of 10 Multiplying 3 and 4-digit numbers by multiples of 100 Multiplying 2-digit numbers by 2-digit numbers Multiplying 4-digit numbers by 3-digit numbers Multiplying 4-digit numbers by 4-digit number Repeated subtraction with divisors less than 20 with no remainders Repeated subtraction by multiples of 10 with divisors less than 20 with no remainders Repeated subtraction by multiples of 2, 3 and 4 with divisors greater than 20 with no remainders Repeated subtraction by multiples of 1,2 and 3 with divisors less than 20 with remainders Repeated subtraction by multiples of 10 with divisors less than 20 with remainders Repeated subtraction by multiples of 10 with divisors less than 20 with remainders		6	200	2000	50	
# 1 2 3 4 5 6 7 8 9 10 11 12 13 14	Place value Counting and numeration Counting and numeration Counting and numeration Counting and numeration Subtraction Multiplication Multiplication Multiplication Multiplication Multiplication Division/repeat subtraction Division/repeat subtraction Division/repeat subtraction	The numbers 1000 to 9999 The numbers 10 000 to 99 999 Seven digit numbers Addition to 9999 and beyond Subtraction involving four digit numbers and beyond using the renaming method. Multiplying 2-digit numbers by multiple of 10 Multiplying 3 and 4-digit numbers by multiples of 100 Multiplying 2-digit numbers by 2-digit numbers Multiplying 4-digit numbers by 3-digit numbers Multiplying 4-digit numbers by 4-digit number Repeated subtraction with divisors less than 20 with no remainders Repeated subtraction by multiples of 10 with divisors less than 20 with no remainders Repeated subtraction by multiples of 2, 3 and 4 with divisors greater than 20 with no remainders Repeated subtraction by multiples of 1,2 and 3 with divisors less than 20 with remainders Repeated subtraction by multiples of 10 with divisors less than 20 with remainders		6	200	2000	50	
# 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	Place value Counting and numeration Counting and numeration Counting and numeration Counting and numeration Subtraction Multiplication Multiplication Multiplication Multiplication Multiplication Division/repeat subtraction Division/repeat subtraction Division/repeat subtraction Division/repeat subtraction Division/repeat subtraction	The numbers 1000 to 9999 The numbers 10 000 to 99 999 Seven digit numbers Addition to 9999 and beyond Subtraction involving four digit numbers and beyond using the renaming method. Multiplying 2-digit numbers by multiple of 10 Multiplying 3 and 4-digit numbers by multiples of 100 Multiplying 2-digit numbers by 2-digit numbers Multiplying 4-digit numbers by 3-digit numbers Multiplying 4-digit numbers by 4-digit number Repeated subtraction with divisors less than 20 with no remainders Repeated subtraction by multiples of 10 with divisors less than 20 with no remainders Repeated subtraction by multiples of 2, 3 and 4 with divisors greater than 20 with no remainders Repeated subtraction by multiples of 1,2 and 3 with divisors less than 20 with remainders Repeated subtraction by multiples of 10 with divisors less than 20 with remainders Repeated subtraction by multiples of 10 with divisors less than 20 with remainders Repeated subtraction with divisors greater than 20 with remainders as fractions		6	200	2000	50	
# 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Place value Counting and numeration Counting and numeration Counting and numeration Counting and numeration Subtraction Multiplication Multiplication Multiplication Multiplication Multiplication Division/repeat subtraction	The numbers 1000 to 9999 The numbers 10 000 to 99 999 Seven digit numbers Addition to 9999 and beyond Subtraction involving four digit numbers and beyond using the renaming method. Multiplying 2-digit numbers by multiple of 10 Multiplying 3 and 4-digit numbers by multiples of 100 Multiplying 2-digit numbers by 2-digit numbers Multiplying 4-digit numbers by 3-digit numbers Multiplying 4-digit numbers by 4-digit number Repeated subtraction with divisors less than 20 with no remainders Repeated subtraction by multiples of 10 with divisors less than 20 with no remainders Repeated subtraction by multiples of 2, 3 and 4 with divisors greater than 20 with no remainders Repeated subtraction by multiples of 1,2 and 3 with divisors less than 20 with remainders Repeated subtraction by multiples of 10 with divisors less than 20 with remainders Repeated subtraction with divisors greater than 20 with remainders Repeated subtraction with divisors less than 35 with some remainders Repeated subtraction with divisors less than 55 with dividends of 3 and 4-digits with some remainders		6	200	2000	50	
# 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Place value Counting and numeration Counting and numeration Counting and numeration Subtraction Multiplication Multiplication Multiplication Multiplication Multiplication Multiplication Division/repeat subtraction	The numbers 1000 to 9999 The numbers 10 000 to 99 999 Seven digit numbers Addition to 9999 and beyond Subtraction involving four digit numbers and beyond using the renaming method. Multiplying 2-digit numbers by multiple of 10 Multiplying 3 and 4-digit numbers by multiples of 100 Multiplying 2-digit numbers by 2-digit numbers Multiplying 4-digit numbers by 3-digit numbers Multiplying 4-digit numbers by 4-digit number Repeated subtraction with divisors less than 20 with no remainders Repeated subtraction by multiples of 10 with divisors less than 20 with no remainders Repeated subtraction by multiples of 2, 3 and 4 with divisors greater than 20 with no remainders Repeated subtraction by multiples of 1,2 and 3 with divisors less than 20 with remainders Repeated subtraction by multiples of 10 with divisors less than 20 with remainders Repeated subtraction with divisors greater than 20 with remainders Repeated subtraction with divisors less than 35 with some remainders Repeated subtraction with divisors less than 55 with dividends of 3 and 4-digits with some remainders Repeated subtraction with divisors greater than 50 with dividends of thousands and some remainders		6	200	2000	50	
# 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Place value Counting and numeration Counting and numeration Counting and numeration Subtraction Multiplication Multiplication Multiplication Multiplication Multiplication Division/repeat subtraction	The numbers 1000 to 9999 The numbers 10 000 to 99 999 Seven digit numbers Addition to 9999 and beyond Subtraction involving four digit numbers and beyond using the renaming method. Multiplying 2-digit numbers by multiple of 10 Multiplying 3 and 4-digit numbers by altiples of 100 Multiplying 2-digit numbers by 2-digit numbers Multiplying 4-digit numbers by 3-digit numbers Multiplying 4-digit numbers by 4-digit number Repeated subtraction with divisors less than 20 with no remainders Repeated subtraction by multiples of 10 with divisors less than 20 with no remainders Repeated subtraction by multiples of 2, 3 and 4 with divisors greater than 20 with no remainders Repeated subtraction by multiples of 1,2 and 3 with divisors less than 20 with remainders Repeated subtraction by multiples of 10 with divisors less than 20 with remainders Repeated subtraction with divisors greater than 20 with remainders as fractions Repeated subtraction with divisors less than 35 with some remainders Repeated subtraction with divisors less than 55 with dividends of 3 and 4-digits with some remainders Repeated subtraction with divisors greater than 50 with		6	200	2000	50	
# 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Place value Counting and numeration Counting and numeration Counting and numeration Subtraction Multiplication Multiplication Multiplication Multiplication Multiplication Division/repeat subtraction Division/repeat subtraction	The numbers 1000 to 9999 The numbers 10 000 to 99 999 Seven digit numbers Addition to 9999 and beyond Subtraction involving four digit numbers and beyond using the renaming method. Multiplying 2-digit numbers by multiple of 10 Multiplying 3 and 4-digit numbers by aultiples of 100 Multiplying 2-digit numbers by 2-digit numbers Multiplying 4-digit numbers by 3-digit numbers Multiplying 4-digit numbers by 4-digit number Repeated subtraction with divisors less than 20 with no remainders Repeated subtraction by multiples of 10 with divisors less than 20 with no remainders Repeated subtraction by multiples of 2, 3 and 4 with divisors greater than 20 with no remainders Repeated subtraction by multiples of 1,2 and 3 with divisors less than 20 with remainders Repeated subtraction by multiples of 10 with divisors less than 20 with remainders Repeated subtraction with divisors greater than 20 with remainders as fractions Repeated subtraction with divisors less than 35 with some remainders Repeated subtraction with divisors less than 55 with dividends of 3 and 4-digits with some remainders Repeated subtraction with divisors greater than 50 with dividends of thousands and some remainders Using divide, multiply and subtraction in the bring down method		6	200	2000	50	
# 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Place value Counting and numeration Counting and numeration Counting and numeration Subtraction Multiplication Multiplication Multiplication Multiplication Multiplication Division/repeat subtraction	The numbers 1000 to 9999 The numbers 10 000 to 99 999 Seven digit numbers Addition to 9999 and beyond Subtraction involving four digit numbers and beyond using the renaming method. Multiplying 2-digit numbers by multiple of 10 Multiplying 3 and 4-digit numbers by altiples of 100 Multiplying 2-digit numbers by 2-digit numbers Multiplying 4-digit numbers by 3-digit numbers Multiplying 4-digit numbers by 4-digit number Repeated subtraction with divisors less than 20 with no remainders Repeated subtraction by multiples of 10 with divisors less than 20 with no remainders Repeated subtraction by multiples of 2, 3 and 4 with divisors greater than 20 with no remainders Repeated subtraction by multiples of 1,2 and 3 with divisors less than 20 with remainders Repeated subtraction by multiples of 10 with divisors less than 20 with remainders Repeated subtraction with divisors greater than 20 with remainders as fractions Repeated subtraction with divisors less than 35 with some remainders Repeated subtraction with divisors less than 55 with dividends of 3 and 4-digits with some remainders Repeated subtraction with divisors greater than 50 with dividends of thousands and some remainders Using divide, multiply and subtraction in the bring down		6	200	2000	50	

SH RRICULLAM			HRS	USD/hr	USD /month	USD /year	Q&A pdf /chapter	HW Hel
24	Algebraic expressions	Directed numbers: multiplication and division.						
25	Multiplication	Multiples and factors of whole numbers						
26	Rules properties	Using Order of Operation procedures (BIDMAS) with Fractions						
	Decimals							
	Decimals	Adding decimals to two decimal places						
		Subtracting decimals to two decimal places						
	Decimals	Using decimals – shopping problems						
	Decimals	Using decimals to record length						
	Decimals	Rounding decimals						
	Decimals	Decimals to three decimal places						
	Decimals	Adding decimals with a different number of decimal places						
	Decimals	Subtracting decimals with a different number of places						
	Fractions	Comparing and ordering fractions						
	Fractions	mixed numbers (mixed numerals)						
	Fractions	Improper fractions						
38	Fractions	Fractions 1/5, 1/10, 1/100						
39	Fractions	Finding equivalent fractions						
	Fractions	Multiplying and dividing to obtain equivalent fractions						
41	Fractions	Reducing fractions to lowest equivalent form						
42	Fractions	Comparing and ordering fractions greater than (>) 1						
43	Fractions	Subtracting fractions from whole numbers						
44	Fractions	Adding and subtracting fractions with the same denominator						
	Fractions	Adding and subtracting fractions with different denominators						
	Fractions	Multiplying fractions by whole numbers						
	Fractions	Fractions of whole numbers						
	Fractions	Multiplying fractions						
	Fractions	Multiplying mixed numbers (mixed numerals) Finding reciprocals of fractions and mixed numbers (mixed						
	Fractions	numerals)						
	Fractions	Dividing fractions						
	Fractions	Dividing mixed numbers (mixed numerals)						
	Length	Compare and convert formal units of measurement						
	Weight/mass	The kilogram						
	Weight/mass	The gram and net mass						
56	Weight/mass	The tonne – converting units and problems						
57	Capacity	Using the cubic cm and displacement to measure volume and capacity						
58	Capacity	Using the cubic cm as a standard unit of measurement for volume and capacity						
59	Capacity	The relationship between the common units of capacity, the litre and the millilitre						
40	Capacity	Converting between volume and capacity using kilolitres and litres						
	. ,							
61	Capacity	Estimate, measure and compare the capacity of containers Introducing the rules for finding the area of a rectangle						
62	Area	and a parallelogram.						
	Area	Finding the area of a triangle and other composite shapes.						
	Area	Larger areas: square metre, hectare, square kilometre.						
	Area	Comparing and ordering areas.						
	Volume	Introduction to volume. using the cubic centimetre as a standard unit						
	Volume	Using the cubic centimetre to measure volume.						
	Volume	Introducing the formula for volume.						
	Volume	Using the cubic metre to measure volume.						
	Volume	Solving Problems about Volume – Part 1.						
	Volume	Solving Problems about Volume – Part 1.						
		Problems with length.						
	Length Mass	Problems with mass.						
	Area	Problems with area.						
	Volume/capacity	Problems with volume/capacity.						
76	Time, 24-hour	24 hour time						
	Time zones	Time zones						
	Lines and angles	Informal coordinate system						

SH RRICULLAM			HRS	USD/hr	USD /month	USD /year	Q&A pdf /chapter	HW Hel
	2-D shapes	Spatial properties of quadrilaterals	пко	USD/III	/IIIOIIIII	USD /year	rcriaptei	/Спарке
	Geometry-quadrilaterals	Quadrilaterals						
	Geometry-quadrilaterals	Classifying Quadrilaterals						
	Geometry-quadrilaterals	Using the Properties of a Parallelogram						
	Geometry-quadrilaterals	Proving a Shape is a Parallelogram						
	Geometry-quadrilaterals	Properties of the Rectangle, Square and Rhombus						
80	Geometry-quadrilaterals	Properties of the Trapezium and Kite						
	Geometry-quadrilaterals	The quadrilateral family and coordinate methods in geometry						
	2-D shapes	Using the prefix to determine polygons						
89	3-D shapes	Constructing models.						
90	3-D shapes	Recognise and name prisms according to spatial properties						
91	3-D shapes	Recognise and name pyramids according to spatial properties						
92	3-D shapes	Recognise nets for prisms, pyramids, cubes and cones						
93	3-D shapes	Viewing 3-D shapes.						
94	Angles	Measure and classify angles						
95	Geometry-angles	Measuring angles						
	Data	Pictograms						
	Data Data	Bar Charts						
	Data	Line graphs.						
	Data	Pie and bar graphs.						
ade 6 Ma	thematics		325	6	180	1800	50	
#	TOPIC	TITLE						
	Multiplication	Multiplying 2-digit numbers by multiple of 10						
	Multiplication	Multiplying 3 and 4-digit numbers by multiples of 100						
	Multiplication	Multiplying 2-digit numbers by 2-digit numbers						
	Multiplication	Multiplying 4-digit numbers by 3-digit numbers						
5	Multiplication	Multiplying 4-digit numbers by 4-digit number						
6	Division/repeat subtraction	Repeated subtraction with divisors less than 20 with no remainders						
7	Division/repeat subtraction	Repeated subtraction by multiples of 10 with divisors less than 20 with no remainders						
8	Division/repeat subtraction	Repeated subtraction by multiples of 2, 3 and 4 with divisors greater than 20 with no remainders						
9	Division/repeat subtraction	Repeated subtraction by multiples of 1,2 and 3 with divisors less than 20 with remainders						
	Division/repeat subtraction	Repeated subtraction by multiples of 10 with divisors less than 20 with remainders						
	Division/repeat subtraction	Repeated subtraction with divisors greater than 20 with remainders as fractions						
11	Division/repeat subtraction	Repeated subtraction with divisors less than 35 with some						
40	Division/sonest subtraction							
	Division/repeat subtraction	remainders Repeated subtraction with divisors less than 55 with						
	Division/repeat subtraction Division/repeat subtraction	remainders Repeated subtraction with divisors less than 55 with dividends of 3 and 4-digits with some remainders Repeated subtraction with divisors greater than 50 with						
13	·	remainders Repeated subtraction with divisors less than 55 with dividends of 3 and 4-digits with some remainders						
13 14 15	Division/repeat subtraction Division/repeat subtraction Division/repeat subtraction	remainders Repeated subtraction with divisors less than 55 with dividends of 3 and 4-digits with some remainders Repeated subtraction with divisors greater than 50 with dividends of thousands and some remainders Using divide, multiply and subtraction in the bring down method						
13 14 15 16	Division/repeat subtraction Division/repeat subtraction Division/repeat subtraction Decimals	remainders Repeated subtraction with divisors less than 55 with dividends of 3 and 4-digits with some remainders Repeated subtraction with divisors greater than 50 with dividends of thousands and some remainders Using divide, multiply and subtraction in the bring down method Multiplying decimals by 10, 100 and 1000						
13 14 15 16 17	Division/repeat subtraction Division/repeat subtraction Division/repeat subtraction Decimals Decimals	remainders Repeated subtraction with divisors less than 55 with dividends of 3 and 4-digits with some remainders Repeated subtraction with divisors greater than 50 with dividends of thousands and some remainders Using divide, multiply and subtraction in the bring down method Multiplying decimals by 10, 100 and 1000 Dividing decimals by 10, 100 and 1000						
13 14 15 16 17 18	Division/repeat subtraction Division/repeat subtraction Division/repeat subtraction Decimals Decimals Algebraic expressions	remainders Repeated subtraction with divisors less than 55 with dividends of 3 and 4-digits with some remainders Repeated subtraction with divisors greater than 50 with dividends of thousands and some remainders Using divide, multiply and subtraction in the bring down method Multiplying decimals by 10, 100 and 1000 Dividing decimals by 10, 100 and 1000 Directed numbers: addition and subtraction.						
13 14 15 16 17 18 19	Division/repeat subtraction Division/repeat subtraction Division/repeat subtraction Decimals Decimals Algebraic expressions Algebraic expressions	remainders Repeated subtraction with divisors less than 55 with dividends of 3 and 4-digits with some remainders Repeated subtraction with divisors greater than 50 with dividends of thousands and some remainders Using divide, multiply and subtraction in the bring down method Multiplying decimals by 10, 100 and 1000 Dividing decimals by 10, 100 and 1000 Directed numbers: addition and subtraction. Directed numbers: multiplication and division.						
13 14 15 16 17 18 19 20	Division/repeat subtraction Division/repeat subtraction Division/repeat subtraction Decimals Decimals Algebraic expressions Algebraic expressions Multiplication	remainders Repeated subtraction with divisors less than 55 with dividends of 3 and 4-digits with some remainders Repeated subtraction with divisors greater than 50 with dividends of thousands and some remainders Using divide, multiply and subtraction in the bring down method Multiplying decimals by 10, 100 and 1000 Dividing decimals by 10, 100 and 1000 Directed numbers: addition and subtraction. Directed numbers: multiplication and division. Multiples and factors of whole numbers Using Order of Operation procedures (BIDMAS) with						
13 14 15 16 17 18 19 20	Division/repeat subtraction Division/repeat subtraction Division/repeat subtraction Decimals Decimals Algebraic expressions Algebraic expressions	remainders Repeated subtraction with divisors less than 55 with dividends of 3 and 4-digits with some remainders Repeated subtraction with divisors greater than 50 with dividends of thousands and some remainders Using divide, multiply and subtraction in the bring down method Multiplying decimals by 10, 100 and 1000 Dividing decimals by 10, 100 and 1000 Directed numbers: addition and subtraction. Directed numbers: multiplication and division. Multiples and factors of whole numbers						
13 14 15 16 17 18 19 20	Division/repeat subtraction Division/repeat subtraction Division/repeat subtraction Decimals Decimals Algebraic expressions Algebraic expressions Multiplication	remainders Repeated subtraction with divisors less than 55 with dividends of 3 and 4-digits with some remainders Repeated subtraction with divisors greater than 50 with dividends of thousands and some remainders Using divide, multiply and subtraction in the bring down method Multiplying decimals by 10, 100 and 1000 Dividing decimals by 10, 100 and 1000 Directed numbers: addition and subtraction. Directed numbers: multiplication and division. Multiples and factors of whole numbers Using Order of Operation procedures (BIDMAS) with						
13 14 15 16 17 18 19 20 21	Division/repeat subtraction Division/repeat subtraction Division/repeat subtraction Decimals Decimals Algebraic expressions Algebraic expressions Multiplication Rules properties	remainders Repeated subtraction with divisors less than 55 with dividends of 3 and 4-digits with some remainders Repeated subtraction with divisors greater than 50 with dividends of thousands and some remainders Using divide, multiply and subtraction in the bring down method Multiplying decimals by 10, 100 and 1000 Dividing decimals by 10, 100 and 1000 Directed numbers: addition and subtraction. Directed numbers: multiplication and division. Multiples and factors of whole numbers Using Order of Operation procedures (BIDMAS) with Fractions						
13 14 15 16 17 18 19 20 21 22 23	Division/repeat subtraction Division/repeat subtraction Division/repeat subtraction Decimals Decimals Algebraic expressions Algebraic expressions Multiplication Rules properties Decimals	remainders Repeated subtraction with divisors less than 55 with dividends of 3 and 4-digits with some remainders Repeated subtraction with divisors greater than 50 with dividends of thousands and some remainders Using divide, multiply and subtraction in the bring down method Multiplying decimals by 10, 100 and 1000 Dividing decimals by 10, 100 and 1000 Directed numbers: addition and subtraction. Directed numbers: multiplication and division. Multiples and factors of whole numbers Using Order of Operation procedures (BIDMAS) with Fractions Adding decimals to two decimal places						
13 14 15 16 17 18 19 20 21 22 23 24	Division/repeat subtraction Division/repeat subtraction Division/repeat subtraction Decimals Decimals Algebraic expressions Algebraic expressions Multiplication Rules properties Decimals Decimals	remainders Repeated subtraction with divisors less than 55 with dividends of 3 and 4-digits with some remainders Repeated subtraction with divisors greater than 50 with dividends of thousands and some remainders Using divide, multiply and subtraction in the bring down method Multiplying decimals by 10, 100 and 1000 Dividing decimals by 10, 100 and 1000 Directed numbers: addition and subtraction. Directed numbers: multiplication and division. Multiples and factors of whole numbers Using Order of Operation procedures (BIDMAS) with Fractions Adding decimals to two decimal places Subtracting decimals to two decimal places						
13 14 15 16 17 18 19 20 21 22 23 24 25	Division/repeat subtraction Division/repeat subtraction Division/repeat subtraction Decimals Decimals Algebraic expressions Algebraic expressions Multiplication Rules properties Decimals Decimals Decimals Decimals	remainders Repeated subtraction with divisors less than 55 with dividends of 3 and 4-digits with some remainders Repeated subtraction with divisors greater than 50 with dividends of thousands and some remainders Using divide, multiply and subtraction in the bring down method Multiplying decimals by 10, 100 and 1000 Dividing decimals by 10, 100 and 1000 Directed numbers: addition and subtraction. Directed numbers: multiplication and division. Multiples and factors of whole numbers Using Order of Operation procedures (BIDMAS) with Fractions Adding decimals to two decimal places Subtracting decimals to two decimal places Using decimals - shopping problems						
13 14 15 16 17 18 19 20 21 22 23 24 25 26	Division/repeat subtraction Division/repeat subtraction Division/repeat subtraction Decimals Decimals Algebraic expressions Multiplication Rules properties Decimals Decimals Decimals Decimals Decimals Decimals Decimals	remainders Repeated subtraction with divisors less than 55 with dividends of 3 and 4-digits with some remainders Repeated subtraction with divisors greater than 50 with dividends of thousands and some remainders Using divide, multiply and subtraction in the bring down method Multiplying decimals by 10, 100 and 1000 Dividing decimals by 10, 100 and 1000 Directed numbers: addition and subtraction. Directed numbers: multiplication and division. Multiples and factors of whole numbers Using Order of Operation procedures (BIDMAS) with Fractions Adding decimals to two decimal places Subtracting decimals to two decimal places Using decimals - shopping problems Using decimals to record length						

IRISH CARRICULLAM			HRS	USD/hr	USD /month	USD /year	Q&A pdf /chapter	HW Help /Chapter
	Decimals	Subtracting decimals with a different number of places		235/111		555 / your	, oaptoi	- C.Iuptoi
	Decimals	Multiplying decimals by whole numbers						
		Multiplication of decimals by decimals to two decimal						
31	Decimals	places						
32	Decimals	Dividing decimal fractions by whole numbers						
33	Decimals	Dividing numbers by a decimal fraction						
34	Fractions	Subtracting fractions from whole numbers						
		Adding and subtracting fractions with the same						
35	Fractions	denominator						
24	Fractions	Adding and subtracting fractions with different						
	Fractions	denominators						
	Fractions	Multiplying fractions by whole numbers Fractions of whole numbers						
	Fractions Fractions	Multiplying fractions						
	Fractions	Multiplying mixed numbers (mixed numerals) Finding reciprocals of fractions and mixed numbers (mixed numerals)						
	Fractions	Dividing fractions						
	Fractions	Dividing mixed numbers (mixed numerals)						
	Percentages	Calculating Percentages and Fractions of Quantities						
	Algebraic expressions	Algebraic expressions.						
	Algebraic expressions	Simplifying algebraic expressions: adding like terms.						
4/	Algebraic expressions	Simplifying algebraic Expressions: subtracting like terms. Simplifying Algebraic expressions: combining addition and						
48	Algebraic expressions	subtraction.						
	Algebraic expressions	Simplifying algebraic expressions: multiplication						
	Algebraic expressions	Simplifying algebraic expressions: division						
	Algebraic equations	Solving equations containing addition and subtraction						
	Algebraic equations	Solving equations containing multiplication and division						
JZ	Algebraic equations	Introducing the rules for finding the area of a rectangle						
53	Area	and a parallelogram.						
54	Area	Finding the area of a triangle and other composite shapes.						
55	Area	Larger areas: square metre, hectare, square kilometre.						
	Area	Comparing and ordering areas.						
57	Area	Area of a trapezium.						
	Area	Area of a rhombus.						
	Surface area	Surface area of a cube/rectangular prism.						
	Surface area	Surface area of a triangular/trapezoidal prism.						
	Volume	Introducing the formula for volume.						
	Volume	Using the cubic metre to measure volume.						
	Volume	Solving Problems about Volume – Part 1.						
	Volume	Solving Problems about Volume - Part 1.						
	Volume Geometry-guadrilaterals	Finding the volume of prisms						
	Geometry-quadrilaterals	Properties of the Rectangle, Square and Rhombus						
6/	Geometry-quadrilaterals	Properties of the Trapezium and Kite						
48	Geometry-quadrilaterals	The quadrilateral family and coordinate methods in geometry						
	Lines and angles	Informal coordinate system						
	Angles	Measure and classify angles						
	Geometry-angles	Measuring angles						
	Statistics	The range.						
	Statistic-probability	The mode						
	Statistic-probability Statistic-probability	The mode The mean						
	Statistic-probability Statistic-probability	The median						
	Data	Pie and bar graphs.						
76	Data	Ple and dar graphs.						
Grade 7 Mat	hematics		350	6	200	2000	50	
#	TOPIC	TITLE						
1	Multiplication	Multiplying 4-digit numbers by 3-digit numbers						
2	Multiplication	Multiplying 4-digit numbers by 4-digit number						
	Division/repeat subtraction	Repeated subtraction with divisors greater than 50 with dividends of thousands and some remainders						
		Using divide, multiply and subtraction in the bring down						
4	Division/repeat subtraction	Using divide, multiply and subtraction in the bring down method						

H RRICULLAM			HRS	USD/hr	USD /month	USD /year	Q&A pdf /chapter	HW Hel
5	Decimals	Multiplying decimals by 10, 100 and 1000						
6	Decimals	Dividing decimals by 10, 100 and 1000						
7	Algebraic expressions	Directed numbers: addition and subtraction.						
8	Algebraic expressions	Directed numbers: multiplication and division.						
	Multiplication	Multiples and factors of whole numbers						
,	Transpired for	Using Order of Operation procedures (BIDMAS) with						
10	Rules properties	Fractions						
	Decimals	Adding decimals with a different number of decimal places						
	Decimals	Subtracting decimals with a different number of places						
	Decimals	Multiplying decimals by whole numbers						
13	Decimals							
14	Decimals	Multiplication of decimals by decimals to two decimal places						
	Decimals	Dividing decimal fractions by whole numbers						
	Decimals	Dividing numbers by a decimal fraction						
10	Decimals							
17	Fractions	Adding and subtracting fractions with different denominators						
	Fractions	Multiplying fractions by whole numbers						
		, , , ,						
	Fractions	Fractions of whole numbers						
	Fractions	Multiplying fractions						
21	Fractions	Multiplying mixed numbers (mixed numerals)						
		Finding reciprocals of fractions and mixed numbers (mixed						
	Fractions	numerals)						
23	Fractions	Dividing fractions						
24	Fractions	Dividing mixed numbers (mixed numerals)						
25	Percentages	Calculating Percentages and Fractions of Quantities						
26	Algebraic expressions	Algebraic expressions.						
27	Algebraic expressions	Simplifying algebraic expressions: adding like terms.						
	Algebraic expressions	Simplifying algebraic Expressions: subtracting like terms.						
	g	Simplifying Algebraic expressions: combining addition and						
29	Algebraic expressions	subtraction.						
	Algebraic expressions	Simplifying algebraic expressions: multiplication						
	Algebraic expressions	Simplifying algebraic expressions: division						
	Algebraic equations	Solving equations containing addition and subtraction						
	Algebraic equations	Solving equations containing multiplication and division						
	Algebraic equations	Solving two step equations						
	Algebraic equations	Solving equations containing binomial expressions						
36	Algebraic equations	Equations involving grouping symbols.						
37	Algebraic equations	Equations involving fractions.						
38	Absolute value or modulus	Solving for the variable						
39	Algebraic expressions	Substitution into algebraic expressions.						
40	Rules for indices/exponents	Adding indices when multiplying terms with the same base						
	·	Subtracting indices when dividing terms with the same						
41	Rules for indices/exponents	base						
		Introducing the rules for finding the area of a rectangle						
42	Area	and a parallelogram.						
43	Area	Finding the area of a triangle and other composite shapes.						
44	Area	Larger areas: square metre, hectare, square kilometre.						
45	Area	Comparing and ordering areas.						
	Area	Area of a trapezium.						
	Area	Area of a rhombus.						
	Surface area	Surface area of a cube/rectangular prism.						
49	Surface area	Surface area of a triangular/trapezoidal prism.						
50	Volume	Introducing the formula for volume.						
51	Volume	Using the cubic metre to measure volume.						
52	Volume	Solving Problems about Volume - Part 1.						
53	Volume	Solving Problems about Volume - Part 2.						
54	Volume	Finding the volume of prisms						
	Geometry-angles	Measuring angles						
	Geometry-angles	Adjacent angles						
	Geometry-angles	Complementary and supplementary angles						
	Geometry-angles	Vertically opposite angles						
	Geometry-angles	Angles at a Point.						
	Geometry-angles	Parallel Lines.						
61	Geometry-problems	Additional questions involving parallel lines						
62	Geometry-triangles	Angle sum of a triangle						

IRISH CARRICULLAM			HRS	USD/hr	USD /month	USD /year	Q&A pdf /chapter	HW Help /Chapter
63	Geometry-triangles	Exterior angle theorem					•	
64	Geometry-constructions	Geometric constructions						
65	Geometry	To identify collinear points, coplanar lines and points in 2 and 3 dimensions						
66	Geometry-constructions	Angle bisector construction and its properties (Stage 2)						
67	Geometry-constructions	Circumcentre and incentre (Stage 2)						
68	Geometry-constructions	Orthocentre and centroids (Stage 2)						
	Tessellating 2-D shapes	Use grids to enlarge/reduce 2D shapes						
		Special transformations – reflections, rotations and						
70	Transformations	enlargements.						
71	Translations	Transformations – reflections						
72	Geometric transformations	Geometry transformations without matrices: reflection (Stage 2)						
73	Geometric transformations	Geometry transformations without matrices: translation (Stage 2)						
74	Geometric transformations	Geometry transformations without matrices: rotation (Stage 2)						
	Geometric transformations	Geometry transformations without matrices: dilation or enlargement (Stage 2)						
/ /	203mod io di di Bioi mationi	The definition and concept of combined transformations						
76	Geometric transformations	resulting in an equivalent single transformation.						
77	Statistics	The range.						
78	Statistic-probability	The mode						
	Statistic-probability	The mean						
	Statistic-probability	The median						
	Statistic-probability	Calculating the median from a frequency distribution						
	Statistics – grouped data	Calculating mean, mode and median from grouped data						
	Statistics - Range and dispersion	Range as a measure of dispersion						
	Statistics - Spread	Measures of spread						
	Statistics	Frequency distribution table						
	Statistics	Relative frequency						
	Statistic-probability	Probability of Simple Events						
	Statistic-probability Statistic-probability	Rolling a pair of dice						
	Statistic-probability Statistic-probability	Experimental probability						
	Data Data	Pie and bar graphs.						
	Statistics	Frequency histograms and polygons						
Grade 8 Ma	thematics		350	6	200	2000	0 5	0 5
#	TOPIC	TITLE						
1	Algebraic expressions	Directed numbers: addition and subtraction.						
2	Algebraic expressions	Directed numbers: multiplication and division.						
	Algebra-highest common factor	Highest common factor.						
	Factors by grouping	Factors by grouping.						
	Number theory – sets	Number sets and their members						
	Scientific notation	Scientific notation with larger numbers						
	Scientific flotation	-						
7	Scientific notation							
	Scientific notation	Scientific notation with small numbers Changing scientific notation to numerals						
8	Scientific notation	Changing scientific notation to numerals						
8	Scientific notation Significant figures	Changing scientific notation to numerals Significant figures						
8 9 10	Scientific notation Significant figures Time, distance, speed	Changing scientific notation to numerals Significant figures Average speed						
8 9 10 11	Scientific notation Significant figures Time, distance, speed Decimals	Changing scientific notation to numerals Significant figures Average speed Multiplying decimals by whole numbers Multiplication of decimals by decimals to two decimal						
8 9 10 11 12	Scientific notation Significant figures Time, distance, speed Decimals Decimals	Changing scientific notation to numerals Significant figures Average speed Multiplying decimals by whole numbers Multiplication of decimals by decimals to two decimal places						
8 9 10 11 12 13	Scientific notation Significant figures Time, distance, speed Decimals Decimals Decimals	Changing scientific notation to numerals Significant figures Average speed Multiplying decimals by whole numbers Multiplication of decimals by decimals to two decimal places Dividing decimal fractions by whole numbers						
8 9 10 11 12 13	Scientific notation Significant figures Time, distance, speed Decimals Decimals Decimals Decimals	Changing scientific notation to numerals Significant figures Average speed Multiplying decimals by whole numbers Multiplication of decimals by decimals to two decimal places Dividing decimal fractions by whole numbers Dividing numbers by a decimal fraction						
8 9 10 11 12 13 14	Scientific notation Significant figures Time, distance, speed Decimals Decimals Decimals Decimals Fractions	Changing scientific notation to numerals Significant figures Average speed Multiplying decimals by whole numbers Multiplication of decimals by decimals to two decimal places Dividing decimal fractions by whole numbers Dividing numbers by a decimal fraction Multiplying fractions						
8 9 10 11 12 13 14 15	Scientific notation Significant figures Time, distance, speed Decimals Decimals Decimals Decimals Fractions Practions	Changing scientific notation to numerals Significant figures Average speed Multiplying decimals by whole numbers Multiplication of decimals by decimals to two decimal places Dividing decimal fractions by whole numbers Dividing numbers by a decimal fraction Multiplying fractions Multiplying mixed numbers (mixed numerals) Finding reciprocals of fractions and mixed numbers (mixed						
8 9 10 11 12 13 14 15 16	Scientific notation Significant figures Time, distance, speed Decimals Decimals Decimals Decimals Fractions Fractions	Changing scientific notation to numerals Significant figures Average speed Multiplying decimals by whole numbers Multiplication of decimals by decimals to two decimal places Dividing decimal fractions by whole numbers Dividing numbers by a decimal fraction Multiplying fractions Multiplying mixed numbers (mixed numerals) Finding reciprocals of fractions and mixed numbers (mixed numerals)						
8 9 10 11 12 13 14 15 16	Scientific notation Significant figures Time, distance, speed Decimals Decimals Decimals Decimals Fractions Fractions Fractions Fractions	Changing scientific notation to numerals Significant figures Average speed Multiplying decimals by whole numbers Multiplication of decimals by decimals to two decimal places Dividing decimal fractions by whole numbers Dividing numbers by a decimal fraction Multiplying fractions Multiplying mixed numbers (mixed numerals) Finding reciprocals of fractions and mixed numbers (mixed numerals) Dividing fractions						
8 9 10 11 12 13 14 15 16	Scientific notation Significant figures Time, distance, speed Decimals Decimals Decimals Decimals Fractions Fractions	Changing scientific notation to numerals Significant figures Average speed Multiplying decimals by whole numbers Multiplication of decimals by decimals to two decimal places Dividing decimal fractions by whole numbers Dividing numbers by a decimal fraction Multiplying fractions Multiplying mixed numbers (mixed numerals) Finding reciprocals of fractions and mixed numbers (mixed numerals)						
8 9 10 11 12 13 14 15 16 17 18	Scientific notation Significant figures Time, distance, speed Decimals Decimals Decimals Decimals Fractions Fractions Fractions Fractions	Changing scientific notation to numerals Significant figures Average speed Multiplying decimals by whole numbers Multiplication of decimals by decimals to two decimal places Dividing decimal fractions by whole numbers Dividing numbers by a decimal fraction Multiplying fractions Multiplying mixed numbers (mixed numerals) Finding reciprocals of fractions and mixed numbers (mixed numerals) Dividing fractions Dividing mixed numbers (mixed numerals)						

RISH ARRICULLAM			HRS	USD/hr	USD /month	USD /year	Q&A pdf /chapter	HW Hel
22	Percentages	Changing percentages to fractions and decimals						
23	Percentages	One quantity as a percentage of another						
24	Algebraic expressions	Algebraic expressions.						
25	Algebraic expressions	Simplifying algebraic expressions: adding like terms.						
26	Algebraic expressions	Simplifying algebraic Expressions: subtracting like terms.						
		Simplifying Algebraic expressions: combining addition and						
27	Algebraic expressions	subtraction.						
28	Algebraic expressions	Simplifying algebraic expressions: multiplication						
29	Algebraic expressions	Simplifying algebraic expressions: division						
30	Algebraic expressions	Expanding algebraic expressions: multiplication						
31	Algebraic expressions	Expanding algebraic expressions: negative multiplier						
	Algebraic expressions	Expanding and simplifying algebraic expressions						
	Algebraic equations	Solving equations containing addition and subtraction						
	Algebraic equations	Solving equations containing multiplication and division						
	Algebraic equations	Solving two step equations						
	Algebraic equations	Solving equations containing binomial expressions						
	Algebraic equations	Equations involving grouping symbols.						
	Algebraic equations	Equations involving greating symbols.						
	Absolute value or modulus	Solving for the variable						
	Simultaneous equns	Simultaneous equations						
	Simultaneous equns	Elimination method						
	,							
	Simultaneous equns	Elimination method part 2						
	Simultaneous equns	Applications of simultaneous equations						
	Algebra-factorising	Simplifying easy algebraic fractions.						
	Factorisation	Factorisation of algebraic fractions including binomials.						
	Factorising	Expansions leading to the difference of two squares						
47	Common fact and diff	Common factor and the difference of two squares						
48	Algebraic expressions	Substitution into algebraic expressions.						
49	Algebra- formulae	Equations resulting from substitution into formulae.						
50	Algebra- formulae	Changing the subject of the formula.						
51	Sequences and Series	General sequences.						
52	Sequences and Series	Finding Tn given Sn.						
53	Arithmetic Progression	The arithmetic progression						
54	Area	Area of a trapezium.						
55	Area	Area of a rhombus.						
56	Area	Area of a circle.						
57	Area	Area of regular polygons and composite figures.						
58	Surface area	Surface area of a cube/rectangular prism.						
59	Surface area	Surface area of a triangular/trapezoidal prism.						
	Surface area	Surface area of a cylinder and sphere.						
	Surface area	Surface area of pyramids						
	Surface area	Surface area of cones						
	Surface area	Surface area of composite solids						
	Volume	Finding the volume of prisms						
	Volume	Volume of a cylinder and sphere.						
	Volume	·						
		Volume of pyramids and cones.						
	Volume	Composite solids.						
	Geometry-angles	Adjacent angles						
	Geometry-angles	Complementary and supplementary angles						
	Geometry-angles	Vertically opposite angles						
	Geometry-angles	Angles at a Point.						
	Geometry-angles	Parallel Lines.						
	Geometry-problems	Additional questions involving parallel lines						
	Geometry-triangles	Angle sum of a triangle						
75	Geometry-triangles	Exterior angle theorem						
		To determine angle labelling rules, naming angles						
7/	Coometry	according to size, angle bisector properties and related						
	Geometry - angles	algebra						
	Geometry problems	More difficult exercises involving parallel lines						
	Geometry-polygons	Angles of regular polygons						
	Trigonometry-compass	Bearings – the compass.						
	Trig complementary angles	Complementary angle results.						
81	Geometry-constructions	Geometric constructions						

RISH CARRICULLAM			HRS	USD/hr	USD /month	USD /year	Q&A pdf /chapter	HW Help /Chapter
	Geometry	To identify collinear points, coplanar lines and points in 2 and 3 dimensions						
	Geometry-constructions	Angle bisector construction and its properties (Stage 2)						
	Geometry-constructions	Circumcentre and incentre (Stage 2)						
	Geometry-constructions	Orthocentre and incentre (Stage 2)						
	Geometry-locus	Constructions and loci – single condition						
	,	,						
0/	Geometry-locus	Constructions and loci – multiple conditions Special transformations – reflections, rotations and						
88	Transformations	enlargements.						
89	Translations	Transformations – reflections						
		Geometry transformations without matrices: reflection						
90	Geometric transformations	(Stage 2)						
91	Geometric transformations	Geometry transformations without matrices: translation (Stage 2)						
92	Geometric transformations	Geometry transformations without matrices: rotation (Stage 2)						
93	Geometric transformations	Geometry transformations without matrices: dilation or enlargement (Stage 2)						
94	Geometric transformations	The definition and concept of combined transformations resulting in an equivalent single transformation.						
95	Pythagoras	Find the hypotenuse						
96	Pythagoras	Pythagorean triples						
97	Pythagoras	Find the hypotenuse Part 2						
	Pythagoras	Calculating a leg of a right-angled triangle						
	Pythagoras	Proofs of Pythagoras theorem						
100	Statistics	The range.						
101	Statistic-probability	The mode						
	Statistic-probability	The mean						
	Statistic-probability	The median						
	Statistic-probability	Calculating the median from a frequency distribution						
	Statistics – grouped data	Calculating mean, mode and median from grouped data						
	Statistics – Range and dispersion	Range as a measure of dispersion						
	Statistics - Spread	Measures of spread						
	Statistics	Frequency distribution table						
	Statistics	Relative frequency						
	Statistic-probability	Probability of Simple Events						
	Statistic-probability	Rolling a pair of dice						
	Statistic-probability Statistic-probability	Experimental probability						
	. ,	Tree diagrams – not depending on previous outcomes						
	Statistic-probability							
	Statistic-probability	Tree diagrams – depending on previous outcomes						
	Statistics	Frequency histograms and polygons						
	Statistic-probability	Cumulative frequency						
	Statistics - Interquartile range	Measures of spread: the interquartile range						
	Statistics	Stem and Leaf Plots along with Box and Whisker Plots						
119	Statistics	Scatter Diagrams						
High School	- Number and Quantity Mathe	ematics	350) 6	200	200	0 5	0 5
#	TOPIC	TITLE						
		Using Order of Operation procedures (BIDMAS) with						
	Rules properties	Fractions						
	Number theory – equations	Transformations that produce equivalent equations						
3	Decimals	Multiplying decimals by whole numbers						
1	Decimals	Multiplication of decimals by decimals to two decimal places						
		•						
	Decimals Decimals	Dividing numbers by a desimal fraction						
		Dividing numbers by a decimal fraction						
	Fractions	Multiplying fractions						
8	Fractions	Multiplying mixed numbers (mixed numerals)						
9	Fractions	Finding reciprocals of fractions and mixed numbers (mixed numerals)						
	Fractions	Dividing fractions						
	Fractions	Dividing mixed numbers (mixed numerals)						
		Introduction to percentages, including relating common						

SH RRICULLAM			HRS	USD/hr	USD /month	USD /year	Q&A pdf /chapter	HW Hel
13	Percentages	Changing fractions and decimals to percentages using tenths and hundredths						
14	Percentages	Changing percentages to fractions and decimals						
15	Percentages	One quantity as a percentage of another						
	Sequences and Series-Compound							
	interest	Compound interest						
17	Scientific notation	Scientific notation with larger numbers						
18	Scientific notation	Scientific notation with small numbers						
19	Scientific notation	Changing scientific notation to numerals						
20	Significant figures	Significant figures						
21	Number theory – sets	Number sets and their members						
00		Properties of real numbers using addition and						
	Number theory – operations	multiplication						
23	Rules for indices/exponents	Adding indices when multiplying terms with the same base						
24	Rules for indices/exponents	Subtracting indices when dividing terms with the same base						
	Rules for indices/exponents	Multiplying indices when raising a power to a power						
	Rules for indices/exponents	Multiplying indices when raising to more than one term						
	Rules for indices/exponents	Terms raised to the power of zero						
	•	Negative Indices						
	Rules for indices/exponents							
	Fractional indices/exponents	Fractional indices Compley fractions as indices						
	Fractional indices/exponents	Complex fractions as indices						
	Exponential function	The exponential function.						
	Log functions	Logarithmic functions.						
	Logarithms-Power of 2	Powers of 2.						
	Logarithms-Equations and logs	Equations of type $\log x$ to the base $3 = 4$.						
	Logarithms-Equations and logs	Equations of type $\log 32$ to the base $x = 5$.						
	Logarithms-Log laws	Laws of logarithms.						
37	Logarithms-Log laws expansion	Using the log laws to expand logarithmic expressions.						
00	,	Using the log laws to simplify expressions involving						
	Logarithms-Log laws simplifying	logarithms.						
	Logarithms-Log laws numbers	Using the log laws to find the logarithms of numbers.						
	Logarithms-Equations and logs	Equations involving logarithms.						
	Logarithms-Logs to solve equations	Using logarithms to solve equations.						
	Logarithms-Change base formula	Change of base formula						
	Logarithms-Graph-log curve	The graph of the logarithmic curve						
	Logarithms-Log curves	Working with log curves.						
	Surds	Introducing surds						
46	Surds	Some rules for the operations with surds						
47	Surds	Simplifying surds						
48	Surds	Creating entire surds						
49	Surds	Adding and subtracting like surds						
50	Surds	Expanding surds						
51	Surds	Conjugate binomials with surds						
52	Surds	Rationalising the denominator						
53	Surds	Rationalising binomial denominators						
54	Graphing roots	Graphing irrational roots						
55	Surds	Binomial expansions						
56	Graphing binomials	Binomial products.						
57	Graphing binomials	Binomial products with negative multiplier						
58	Graphing binomials	Binomial products [non-monic].						
59	Squaring binomial	Squaring a binomial. [monic]						
	Squaring binomial	Squaring a binomial [non-monic].						
	Statistic-probability	Binomial Theorem – Pascal's Triangle						
	Matrices	Basic concepts – Matrices						
	Matrices	Addition and subtraction of matrices						
	Matrices	Scalar matrix multiplication						
	Matrices	Multiplication of one matrix by another matrix						
	Matrices	Translation in the number plane						
	Matrices	Translation by matrix multiplication						
	Simultaneous equations	Number of solutions (Stage 2)						
	Vectors	2 vector addition in 2 and 3D (stage 2)						
	Linear systems	Optimal solutions (Stage 2) – Vectors						
/ 0	Enreal Systems	Linear systems with matrices (Stage 2)						

IRISH					USD		Q&A pdf	HW Help
CARRICULLAM			HRS	USD/hr	/month	USD /year	/chapter	/Chapter
	Linear systems	Row-echelon form (Stage 2)						
	Linear systems	Gauss Jordan elimination method (Stage 2)						
	Vectors	Vectors						
	Logarithms-Complex numbers	Imaginary numbers and standard form						
76	Logarithms-Complex numbers	Complex numbers - multiplication and division						
77	Logarithms-Complex numbers	Plotting complex number and graphical representation						
78	Logarithms-Complex numbers	Absolute value						
79	Logarithms-Complex numbers	Trigonometric form of a complex number						
80	Logarithms-Complex numbers	Multiplication and division of complex numbers in trig form (Stage 2)						
81	Logarithms-Complex numbers	DeMoivre's theorem (Stage 2)						
	Logarithms-Complex numbers	The nth root of real and complex numbers (Stage 2)						
	Logarithms-Complex numbers	Fundamental theorem of algebra (Stage 2)						
High School	- Algebra Mathematics		350	6	200	2000	50)
#	TOPIC	TITLE						
	Algebraic expressions	Algebraic expressions.						
	Algebraic expressions	Simplifying algebraic expressions: adding like terms.						
	Algebraic expressions	Simplifying algebraic Expressions: adding like terms.						
3	Algebraic expressions	Simplifying Algebraic expressions: subtracting like terms. Simplifying Algebraic expressions: combining addition and						
4	Algebraic expressions	subtraction.						
	Algebraic expressions	Simplifying algebraic expressions: multiplication						
	Algebraic expressions	Simplifying algebraic expressions: division						
	Algebraic expressions	Expanding algebraic expressions: multiplication						
	Algebraic expressions	Expanding algebraic expressions: multiplication						
	Algebraic expressions	Expanding and simplifying algebraic expressions						
	Algebraic fractions	Simplifying algebraic fractions using the index laws.						
	Algebra-negative indices	Algebraic fractions resulting in negative indices.						
	Algebraic fractions-binomial	Cancelling binomial factors in algebraic fractions.						
13	Absolute value or modulus	Simplifying absolute values						
14	Algebraic expressions-products	Products in simplification of algebraic expressions						
15	Algebraic expressions-larger expansions	Algebraic Expressions – Larger expansions.						
16	Algebraic fractions	Simplifying algebraic fractions.						
17	Algebraic equations	Solving equations containing addition and subtraction						
18	Algebraic equations	Solving equations containing multiplication and division						
19	Algebraic equations	Solving two step equations						
20	Algebraic equations	Solving equations containing binomial expressions						
	Algebraic equations	Equations involving grouping symbols.						
	Algebraic equations	Equations involving fractions.						
	Absolute value or modulus	Solving for the variable						
	Simultaneous equns	Simultaneous equations						
	Simultaneous equns	Elimination method						
	Simultaneous equns	Elimination method part 2						
	Simultaneous equns	Applications of simultaneous equations						
	Algebra-factorising							
	Factorisation	Simplifying easy algebraic fractions.						
		Factorisation of algebraic fractions including binomials.						
	Factorising	Expansions leading to the difference of two squares						
	Common fact and diff	Common factor and the difference of two squares						
	Factorising quads	Factorising quadratic trinomials [monic] - Case 2.						
33	Factorising quads	Factorising quadratic trinomials [monic] - Case 3.						
	Factorising quads	Factorising quadratic trinomials [monic] - Case 4.						
35	Factorising quads	Factorisation of non-monic quadratic trinomials Factorisation of non-monic quadratic trinomials – moon						
36	Factorising quads	method						
	Algebraic expressions	Substitution into algebraic expressions.						
	Algebra- formulae	Equations resulting from substitution into formulae.						
	Algebra- formulae	Changing the subject of the formula.						
	Algebra-inequalities	Solving Inequalities.						
	Absolute value or modulus	Solving and graphing inequalities						
	Co-ordinate Geometry-Inequalities	Inequalities on the number plane.						
	, ,							
43	Absolute value equations	Absolute value equations						

IRISH CARRICULLAM			HRS	USD/hr	USD /month	USD /year	Q&A pdf /chapter	HW Help /Chapter
44	Difference of 2 squares	Difference of two squares						
45	Quadratic trinomials	Quadratic trinomials [monic] – Case 1.						
46	Quadratic equations	Introduction to quadratic equations.						
47	Quadratic equations	Quadratic equations with factorisation.						
48	Quadratic equations	Solving quadratic equations.						
49	Quadratic equations	Completing the square						
50	Quadratic equations	Solving quadratic equations by completing the square						
51	Quadratic equations	The quadratic formula						
52	Quadratic equations	Problem solving with quadratic equations						
53	Quadratic equations	Solving simultaneous quadratic equations graphically						
54	Functions and graphs	Quadratic polynomials of the form $y = ax. + bx + c$.						
	Functions and graphs	Graphing perfect squares: y=(a-x) squared						
	Coordinate geometry	Solve by graphing						
	Graphing-polynomials	Graphing complex polynomials: quadratics with no real roots						
		General equation of a circle: determine and graph the						
58	Graphing-polynomials	equation						
59	Graphing-cubic curves	Graphing cubic curves						
60	Graphs, polynomials	Graphs of polynomials						
61	Algebra-polynomials	Introduction to polynomials						
62	Algebra-polynomials	The sum, difference and product of two polynomials.						
	Algebra-polynomials	Polynomials and long division.						
	Polynomial equations	Polynomial equations						
	Factor theorem	The factor theorem						
	Factor theorem	More on the factor theorem						
	Factor theorem	Complete factorisations using the factor theorem						
	Remainder theorem	The remainder theorem.						
	Remainder theorem	More on remainder theorem						
	Sum/diff 2 cubes	Sum and difference of two cubes.						
	Roots quad equations	Sum and product of roots of quadratic equations						
	Roots quad equations	Sum and product of roots of quadratic equations						
	Approx roots	Methods of approximating roots						
	Logic	Inductive and deductive reasoning						
	Logic	Definition and use of counter examples						
	Logic	Indirect proofs						
77	Logic	Mathematical induction						
78	Logic	Conditional statements (converse, inverse and contrapositive) (Stage 2)						
	Sequences and Series	General sequences.						
80	Sequences and Series	Finding Tn given Sn.						
81	Arithmetic Progression	The arithmetic progression						
82	Arithmetic Progression	Finding the position of a term in an A.P.						
83	Arithmetic Progression	Given two terms of A.P., find the sequence.						
84	Arithmetic Progression	Arithmetic means						
85	Arithmetic Progression	The sum to n terms of an A.P.						
86	Geometric Progression	The geometric progression.						
87	Geometric Progression	Finding the position of a term in a G.P.						
88	Geometric Progression	Given two terms of G.P., find the sequence.						
89	Sequences and Series-Geometric means	Geometric means.						
90	Sequences and Series-Sum of gp	The sum to n terms of a G.P.						
	Sequences and Series-Sigma notation	Sigma notation						
92	Sequences and Series-Sum-infinity	Limiting sum or sum to infinity.						
93	Sequences and Series-Recurring decimal infinity	Recurring decimals and the infinite G.P.						
	Sequences and Series-							
94	Superannuation Sequences and Series-Time	Superannuation.						
95	payments	Time payments.						
96	Sequences and Series	Applications of arithmetic sequences						
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	TOPIC				
		TITLE			
2	Functions	Definition, domain and range			
	Functions	Notation and evaluations			
3	Functions	More on domain and range			
4	Functions	Domain and range from graphical representations			
5	Functions	Evaluating and graphing piecewise functions			
6	Functions	Functions combinations			
7	Functions	Composition of functions			
8	Functions	Inverse functions			
9	Functions	Rational functions Part 1			
10	Functions	Rational functions Part 2			
11	Functions	Parametric equations (Stage 2)			
		Polynomial addition etc in combining and simplifying			
12	Functions	functions (Stage 2)			
13	Functions	Parametric functions (Stage 2)			
14	Difference of 2 squares	Difference of two squares			
15	Quadratic trinomials	Quadratic trinomials [monic] – Case 1.			
16	Quadratic equations	Introduction to quadratic equations.			
17	Quadratic equations	Quadratic equations with factorisation.			
18	Quadratic equations	Solving quadratic equations.			
19	Quadratic equations	Completing the square			
20	Quadratic equations	Solving quadratic equations by completing the square			
21	Quadratic equations	The quadratic formula			
22	Quadratic equations	Problem solving with quadratic equations			
23	Quadratic equations	Solving simultaneous quadratic equations graphically			
	Functions and graphs	Quadratic polynomials of the form $y = ax. + bx + c$.			
	Functions and graphs	Graphing perfect squares: y=(a-x) squared			
	Coordinate geometry	Solve by graphing			
20	Coordinate geometry	Graphing complex polynomials: quadratics with no real			
27	Graphing-polynomials	roots			
28	Graphing-polynomials	General equation of a circle: determine and graph the equation			
	Graphing-cubic curves	Graphing cubic curves			
	Graphs, polynomials	Graphs of polynomials			
31	Trig-reciprocal ratios	Reciprocal ratios.			
32	Trig identities	Trigonometric identities			
33	Trig larger angles	Angles of any magnitude			
34	Trig larger angles	Trigonometric ratios of 0°, 90°, 180°, 270° and 360°			
35	Graph sine	Graphing the trigonometric ratios – I Sine curve.			
36	Graph cosine	Graphing the trigonometric ratios – II Cosine curve.			
37	Graphs tan curve	Graphing the trigonometric ratios – III Tangent curve.			
38	Graph reciprocals	Graphing the trigonometric ratios – IV Reciprocal ratios.			
39	Trig larger angles	Using one ratio to find another.			
40	Trig equations	Solving trigonometric equations – Type I.			
41	Trig equations	Solving trigonometric equations – Type II.			
42	Trig equations	Solving trigonometric equations – Type III.			
		Plotting polar coordinates and converting polar to			
43	Polar coordinates	rectangular			
44	Polar coordinates	Converting rectangular coordinates to polar form			
		Write and graph points in polar form with negative			
45	Polar coordinates	vectors (Stage 2)			
46	Trigonometry	Sin(A+B) etc sum and difference identities (Stage 2)			
47	Trigonometry	Double angle formulas (Stage 2)			
48	Trigonometry	Half angle identities (Stage 2)			
49	Trigonometry	t Formulas (Stage 2)			
50	Calculus=1st prin	Differentiation from first principles.			
51	Calculus=1st prin	Differentiation of $y = x$ to the power of n.			
52	Calculus-differential, integ	Meaning of dy over dx – equations of tangents and normals.			
	Calculus differential, integ	Function of a function rule, product rule, quotient rule.			
	Calculus-differential, integ	Increasing, decreasing and stationary functions.			
	Calculus	First Derivative – turning points and curve sketching			
	Calculus-2nd derivative	The second derivative – concavity.			
57	Calculus - Curve sketching	Curve sketching			

RISH CARRICULLAM			HRS	USD/hr	USD /month	USD /year	Q&A pdf /chapter	HW Help /Chapter
59	Calculus	Limits						
60	Calculus – Integration	Integration – anti-differentiation, primitive function						
61	Calculus - Computation area	Computation of an area						
62	Calculus - Computation volumes	Computation of volumes of revolution						
63	Calculus – Trapezoidal and Simpson's rules	The Trapezium rule and Simpson's rule						
ligh School	- Geometry Mathematics		350	6	200	2000	50)
#	TOPIC	TITLE						
		Special transformations – reflections, rotations and						
	Transformations	enlargements.						
2	Translations	Transformations - reflections						
3	Geometric transformations	Geometry transformations without matrices: reflection (Stage 2)						
4	Geometric transformations	Geometry transformations without matrices: translation (Stage 2)						
5	Geometric transformations	Geometry transformations without matrices: rotation (Stage 2)						
6	Geometric transformations	Geometry transformations without matrices: dilation or enlargement (Stage 2)						
0	Coometrie transformations	The definition and concept of combined transformations						
7	Geometric transformations	resulting in an equivalent single transformation.						
8	Geometry-quadrilaterals	Midsegments of Triangles						
9	Geometry-congruence	Congruent triangles, Test 1 and 2						
10	Geometry-congruence	Congruent triangles, Test 3 and 4						
11	Geometry-congruence	Proofs and congruent triangles.						
12	Overlapping triangles	Examples involving overlapping triangles						
	Special triangles	Special triangles						
	Similar triangles	Similar triangles						
	Similar triangles	Using similar triangles to calculate lengths						
	Geometry-constructions	Geometric constructions						
	Geometry	To identify collinear points, coplanar lines and points in 2 and 3 dimensions						
	Geometry-constructions	Angle bisector construction and its properties (Stage 2)						
	Geometry-constructions	Circumcentre and incentre (Stage 2)						
	Geometry-constructions	Orthocentre and centroids (Stage 2)						
	Geometry-locus	Constructions and loci – single condition						
	Geometry-locus	Constructions and loci – multiple conditions						
	Area	Area of a circle.						
	Area	Area of regular polygons and composite figures.						
	Surface area	Surface area of a cube/rectangular prism.						
	Surface area	Surface area of a triangular/trapezoidal prism.						
	Surface area							
	Surface area	Surface area of a cylinder and sphere.						
	Surface area	Surface area of pyramids Surface area of cones						
	Surface area	Surface area of composite solids						
		-						
	Volume	Finding the volume of prisms						
	Volume	Volume of a cylinder and sphere.						
	Volume	Volume of pyramids and cones.						
	Volume	Composite solids.						
	Geometry - triangles	Triangle inequality theorem						
	Coordinate Geometry-the plane Coordinate Geometry-midpoint,	Distance formula.						
	slope	Mid-point formula						
	Coordinate Geometry-gradient	Gradient						
	Coordinate Geometry-gradient	Gradient formula.						
	Coordinate Geometry-straight line	The straight line.						
41	Coordinate Geometry-slope, etc.	Lines through the origin.						
40	Coordinate Geometry-equation of	Conoral form of a line and the yeard white-						
	line	General form of a line and the x and y Intercepts.						
	Coordinate Geometry-intercept	Slope intercept form of a line.						
44	Coordinate Geometry-point slope Co-ordinate Geometry-Two point	Point slope form of a line Two point formula: equation of a line which joins a pair of						

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46	Co-ordinate Geometry-Intercept form	Intercept form of a straight line: find the equation when given x and y						
47	Co-ordinate Geometry-Parallel lines equations	Parallel lines: identify equation of a line parallel to another						
	Co-ordinate Geometry-	, i						
	Perpendicular lines	Perpendicular lines.						
	Co-ordinate Geometry-Theorems	Perpendicular distance						
	Co-ordinate Geometry-Theorems	Line through intersection of two given lines						
	Co-ordinate Geometry-Theorems	Angles between two lines						
	Co-ordinate Geometry-Theorems	Internal and external division of an interval						
	Pythagoras	Find the hypotenuse						
	Pythagoras	Pythagorean triples						
	Pythagoras	Find the hypotenuse Part 2						
	Pythagoras	Calculating a leg of a right-angled triangle						
	Pythagoras	Proofs of Pythagoras theorem						
	Trigonometry-ratios	Trigonometric ratios.						
59	Trigonometry-ratios	Using the calculator.						
60	Trigonometry-ratios	Using the trigonometric ratios to find unknown length. [Case 1 Sine].						
61	Trigonometry-ratios	Using the trigonometric ratios to find unknown length. [Case 2 Cosine].						
62	Trigonometry-ratios	Using the trigonometric ratios to find unknown length. [Case 3 Tangent Ratio].						
63	Trigonometry-ratios	Unknown in the denominator. [Case 4].						
64	Trigonometry-elevation	Angles of elevation and depression.						
65	Trigonometry-practical	Trigonometric ratios in practical situations.						
66	Trigonometry-ratios	Using the calculator to find an angle given a trigonometric ratio.						
	Trigonometry- ratios	Using the trigonometric ratios to find an angle in a right- angled triangle.						
	Trigonometry-exact ratios	Trigonometric ratios of 30., 45. and 60. – exact ratios.						
	Trigonometry-cosine rule	The cosine rule to find an unknown side. [Case 1 SAS].						
	Trigonometry-cosine rule	The cosine rule to find an unknown angle. [Case 2 SSS].						
	Trigonometry-sine rule	The sine rule to find an unknown side. Case 1.						
	Trigonometry-sine rule	The sine rule to find an unknown angle. Case 2.						
	Trigonometry-areas	The area formula						
	Trig-reciprocal ratios	Reciprocal ratios.						
	Trig identities	Trigonometric identities						
	Trig larger angles	Angles of any magnitude						
	Trig larger angles	Trigonometric ratios of 0°, 90°, 180°, 270° and 360°						
	Graph sine	Graphing the trigonometric ratios – I Sine curve.						
	Graph cosine	Graphing the trigonometric ratios – II Cosine curve.						
	Graphs tan curve	Graphing the trigonometric ratios – III Tangent curve.						
	Graph reciprocals	Graphing the trigonometric ratios – IV Reciprocal ratios.						
	Trig larger angles	Using one ratio to find another.						
	Trig equations	Solving trigonometric equations – Type I.						
	Trig equations	Solving trigonometric equations – Type II.						
	Trig equations	Solving trigonometric equations – Type III.						
	Polar coordinates	Plotting polar coordinates and converting polar to rectangular						
87	Polar coordinates	Converting rectangular coordinates to polar form						
	Polar coordinates	Write and graph points in polar form with negative vectors (Stage 2)						
	Trigonometry	Sin(A+B) etc sum and difference identities (Stage 2)						
	Trigonometry	Double angle formulas (Stage 2)						
	Trigonometry	Half angle identities (Stage 2)						
92	Trigonometry	t Formulas (Stage 2) Theorem – Equal arcs on circles of equal radii subtend						
93	Circle Geometry	equal angles at the centre. Theorem – Equal angles at the centre of a circle on equal arcs. Theorem – The perpendicular from the centre of a circle						
94	Circle Geometry	to a chord bisects the chord. Theorem – The line from the centre of a circle to the mid-point of the chord is perpendicular to the chord.						
	Circle Geometry	Theorem – Equal chords in equal circles are equidistant from the centres. Theorem – Chords in a circle which are equidistant from the centre are equal.						

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04	Circle Geometry	Theorem – The angle at the centre of a circle is double the angle at the circumference standing on the same arc.						
70	сп сте беотней у	Theorem – Angles in the same segment of a circle are						
97	Circle Geometry	equal.						
98	Circle Geometry	Theorem – The angle of a semi-circle is a right angle.						
99	Circle Geometry	Theorem – The opposite angles of a cyclic quadrilateral are supplementary.						
100	Circle Geometry	Theorem – The exterior angle at a vertex of a cyclic quadrilateral equals the interior opposite angle.						
101	Circle Geometry	Theorem – The tangent to a circle is perpendicular to the radius drawn to it at the point of contact.						
102	Circle Geometry	Theorem – Tangents to a circle from an external point are equal.						
103	Circle Geometry	Theorem – The angle between a tangent and a chord through the point of contact is equal to the angle in the alternate segment.						
	Circle Geometry-chords	Theorem – The products of the intercepts of two intersecting chords are equal.						
	Circle Geometry-tangents	Theorem – The square of the length of the tangent from an external point is equal to the product of the intercepts of the secant passing through this point. [Including Alternate Proof]						
103	Circle Geometry tangents	Theorem – If the opposite angles in a quadrilateral are						
106	Circle Geometry-cyclic quads	supplementary then the quadrilateral is cyclic. Theorem – If an interval subtends equal angles at two						
107	Circle Geometry-subtending	points on the same side of it, then the end points of the interval and the two points are concyclic.						
108	Circle Geometry	Theorem – When circles touch, the line of the centres passes through the point of contact.						
		Theorem – Any three non-collinear points lie on a unique circle whose centre is the point of concurrency of the perpendicular bisectors of the intervals joining these						
	Circle Geometry-non-collinear Geometry-circles	points. The equation of a circle: to find radii of circles						
	Geometry-circles	The semicircle: to select the equation given the semi circle and vice versa						
440		The parabola: to describe properties of a parabola from its						
	Geometry-parabola	equation						
	Rect.hyperbola	The rectangular hyperbola.						
	Conic sections	Introduction to conic sections and their general equation						
	Conic sections Conic sections	The parabola x. = 4ay Circles						
	Conic sections Conic sections	Ellipses						
	Matrices	Hyperbola Basic concepts - Matrices						
	Matrices	Addition and subtraction of matrices						
	Matrices	Scalar matrix multiplication						
	Matrices	Multiplication of one matrix by another matrix						
	Matrices	Translation in the number plane						
	Matrices	Translation by matrix multiplication						
	Simultaneous equations	Number of solutions (Stage 2)						
	Vectors	2 vector addition in 2 and 3D (stage 2)						
	Linear systems	Optimal solutions (Stage 2) – Vectors						
	Linear systems	Linear systems with matrices (Stage 2)						
	Linear systems	Row-echelon form (Stage 2)						
	Linear systems	Gauss Jordan elimination method (Stage 2)						
chool	- Statistics and Probability M	athematics	350	6	200	200	00 5	50
	TOPIC	TITLE						
	Statistics	Frequency distribution table						
	Statistics	Frequency histograms and polygons						
	Statistics	Relative frequency						
J	Statistics	The range.						
Л	JULIUS	THE TAILSE.						
	Statistic-probability	The mode						
5	Statistic-probability Statistic-probability	The mode The mean						

IRISH CARRICULLAM			HRS	USD/hr	USD /month	USD /year	Q&A pdf /chapter	HW Help /Chapter
8	Statistic-probability	Cumulative frequency						
9	Statistic-probability	Calculating the median from a frequency distribution						
10	Statistic-probability	Probability of Simple Events						
11	Statistic-probability	Rolling a pair of dice						
12	Statistic-probability	Experimental probability						
13	Statistic-probability	Tree diagrams – not depending on previous outcomes						
14	Statistic-probability	Tree diagrams – depending on previous outcomes						
15	Statistic-probability	The complementary result						
16	Statistic-probability	P[A or B] When A and B are both mutually and NOT mutually exclusive						
17	Statistic-probability	Binomial probabilities using the Binomial Theorem						
18	Statistic-probability	Counting techniques and ordered selections – permutations						
19	Statistic-probability	Unordered selections – combinations						
20	Statistics – grouped data	Calculating mean, mode and median from grouped data						
21	Statistics - Range and dispersion	Range as a measure of dispersion						
	Statistics - Spread	Measures of spread						
23	Statistics – Standard deviation	Standard deviation applications						
24	Statistics – Standard deviation	Normal distribution						
25	Statistics – Interquartile range	Measures of spread: the interquartile range						
	Statistics	Stem and Leaf Plots along with Box and Whisker Plots						
27	Statistics	Scatter Diagrams						
28	Sequences and Series	General sequences.						
29	Sequences and Series	Finding Tn given Sn.						
30	Arithmetic Progression	The arithmetic progression						
31	Arithmetic Progression	Finding the position of a term in an A.P.						
32	Arithmetic Progression	Given two terms of A.P., find the sequence.						
33	Arithmetic Progression	Arithmetic means						
34	Arithmetic Progression	The sum to n terms of an A.P.						
35	Geometric Progression	The geometric progression.						
36	Geometric Progression	Finding the position of a term in a G.P.						
37	Geometric Progression	Given two terms of G.P., find the sequence.						
20	Sequences and Series-Geometric means	Geometric means.						
		The sum to n terms of a G.P.						
39	Sequences and Series-Sum of gp Sequences and Series-Sigma	The sum to merms of a G.P.						
	notation	Sigma notation						
41	Sequences and Series-Sum-infinity	Limiting sum or sum to infinity.						
42	Sequences and Series-Recurring decimal infinity	Recurring decimals and the infinite G.P.						
43	Sequences and Series- Superannuation	Superannuation.						
44	Sequences and Series-Time payments	Time payments.						
45	Sequences and Series	Applications of arithmetic sequences						