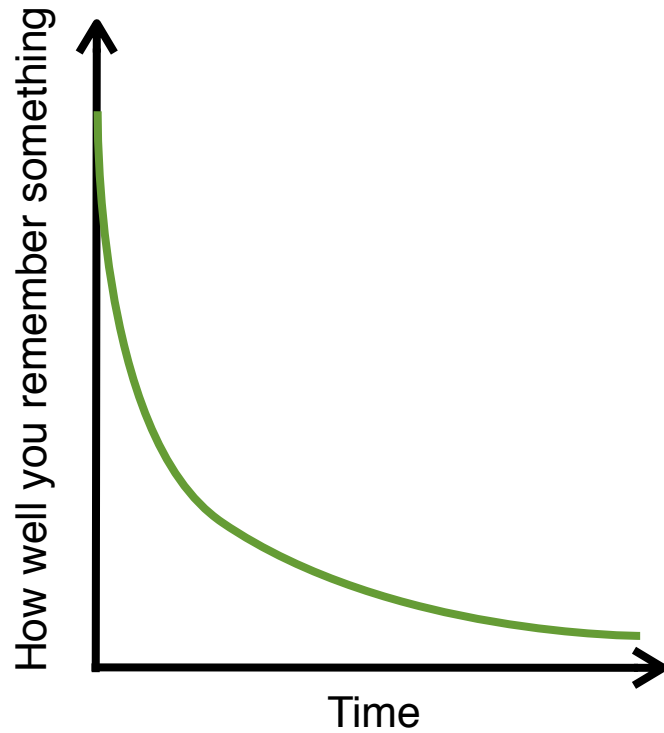


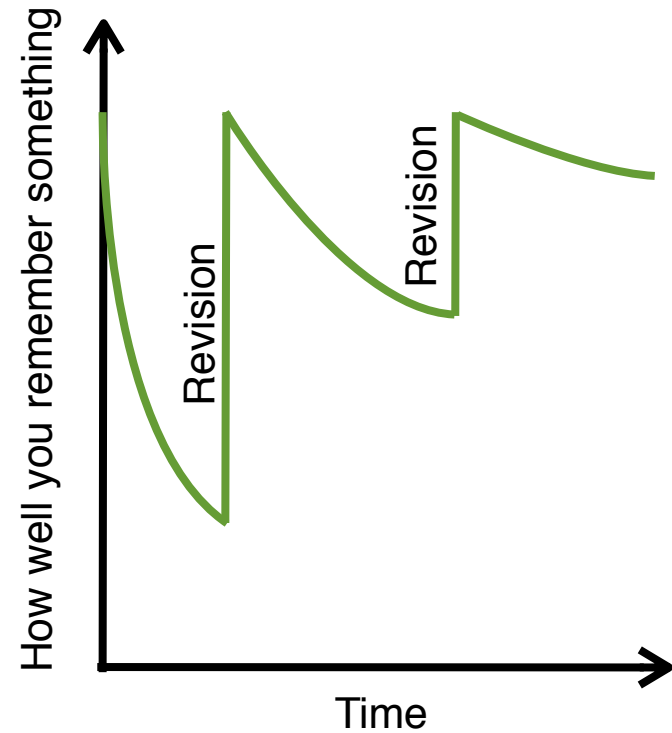
Revision Grids

Level 4



No Revision

VS



With Revision

By Great Maths Teaching Ideas

Revision Grids

Level 4

Welcome and thank you for downloading this Level 4 Revision Grids pack from ***Great Maths Teaching Ideas***.

These resources are to help pupils revise maths topics at level 4 in preparation for their assessments. The questions cover the whole curriculum at level 4.

There are many ways in which you can use the revision grids in the classroom. You can use them just as straightforward worksheets for individual or pair work. Alternatively, they can be used as a '4 in a line' game where pupils take it in turns to answer a question and if they get it right they put a coloured counter on the square. First to get 4 in a line wins. This can also work nicely as a whole-class starter or plenary if you have a projector and/or interactive whiteboard.

If you want to promote collaboration and independent learning getting pupils to work in pairs with a textbook as a reference and then coming to you to see how many they have right is a good strategy. Only tell them how many they have right, not which ones so they have to go away and discuss it with other groups to work out where they have gone wrong and what they need to do to correct it.

My inspiration for creating these Revision Grids came from the excellent blog MEDIAN by Don Steward. <http://donsteward.blogspot.co.uk/> His blog is full of wonderful teaching resources and I can't recommend it highly enough. Be sure to take a read.

I hope you and your pupils have fun lessons with lots of learning using these Revision Grids. Drop me a line and let me know how you get on: williamgeorgeemeny@gmail.com

William Emeny

Revision Grids

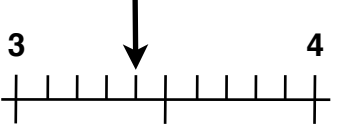

1	Add/ Subtract	2	Add/ Subtract	3	Add/ Subtract	4	Doubling	5	Doubling
57 + ? = 100		A school has 1000 pupils. 445 of the pupils are boys. How many girls are there?		I need to save £7500 to buy a new car. I have saved £2350 so far. How much more do I need to save?		Double 32		Double 29	
6	Halving	7	Halving	8	Add	9	Subtract	10	Difference
Half of 84		Half of 1200		32 + 189		2105 - 927		What is the difference between 67 and 22?	
11	Add	12	Add/ Subtract	13	Multiples	14	LCM	15	Factors
3.2 + 5.4		123 + 47 - 15		Look at these numbers: 1, 5, 12, 8, 25, 72, 120, 3 Which ones are multiples of 5?		What is the lowest common multiple of 2 and 3?		Write down all the factors of 24	
16	Factors	17	Prime numbers	18	Prime numbers	19	Prime numbers	20	HCF
How many factors does 30 have?		How many factors does a prime number have?		What is the first prime number?		Write out the first 10 prime numbers		What is the highest common factor of 8 and 12?	

Revision Grids- Answers

Level 4 Sheet 1

1	2	3	4	5
43	555	£5150	64	58
6	7	8	9	10
42	600	221	1178	45
11	12	13	14	15
8.6	155	5, 25, 120	6	1, 2, 3, 4, 6, 8, 12, 24
16	17	18	19	20
8 (1, 2, 3, 5, 6, 10, 15, 30)	2	2	2, 3, 5, 7, 11, 13, 17, 19, 23, 29	4

Revision Grids

1	Decimals	2	Decimals	3	Decimals	4	Decimals	5	Decimals
What is this number? 		What is this number? 		Which digit is in the tenths column? 45.932		Which digit is in the hundredths column? 81.49		Write this number in digits: 5 tens, 3 units, 7 tenths and 3 hundredths	
6	Decimals	7	Decimals	8	Decimals	9	Decimals	10	Decimals
What is 3 tenths more than 5.8?		What is 6 hundredths less than 3.15?		Put these numbers in order from smallest to largest: 2.1, 2.075, 2.42, 2.007		$4.57 + 12.72$		$43.8 - 23.9$	
11	Rounding	12	Rounding	13	Rounding	14	Rounding	15	Rounding
Round 372 to the nearest 10		Round 347 to the nearest 100		Round 502 to the nearest 10		Round 98 to the nearest 100		Round 6791 to the nearest 1000	
16	Rounding	17	Rounding	18	Estimation	19	Estimation	20	Fractions
Round 12934 to the nearest 1000		Round £4.49 to the nearest pound		Estimate the answer to $3.84 + 2.1$		Estimate 2.3×8.05		$\frac{1}{2}$ of 12	

Revision Grids- Answers

1	2	3	4	5
3.4	6.68	9	9	53.73
6	7	8	9	10
6.1	3.09	2.007, 2.075, 2.1, 2.42	17.29	19.9
11	12	13	14	15
370	300	500	100	7000
16	17	18	19	20
13000	£4	$4 + 2 = 6$	$2 \times 8 = 16$	6

Revision Grids

1	Fractions	2	Fractions	3	Fractions	4	Fractions	5	Fractions
$\frac{3}{4}$ of 20		$\frac{4}{5}$ of 50		$\frac{1}{2} = \frac{?}{6}$		$\frac{2}{3} = \frac{8}{?}$		What fraction is the same as 0.5?	
6	Fractions	7	Mixed numbers	8	Mixed numbers	9	Fractions	10	Fractions
What is 0.2 as a fraction?		$2\frac{1}{3} = \frac{?}{3}$		$\frac{9}{5} = ?\frac{?}{5}$		$3 \times \frac{2}{5}$		Use a calculator to convert this fraction to a decimal number $\frac{3}{5}$	
11	Money	12	Money	13	Money	14	Money	15	Multiplying
How many pence in £3.72?		Write 439 pence in pounds		£3.67 + £12.92		A carton of juice costs £1.45. How much do 3 cartons of juice cost?		8 X 9	
16	Multiplying	17	Multiplying	18	Multiplying	19	Dividing	20	Dividing
6 X 7		32 X 10		99 X 100		1560 ÷ 10		3200 ÷ 100	

Revision Grids- Answers

1		2		3		4		5	
15		40		3		12		$\frac{1}{2}$	
6		7		8		9		10	
$\frac{2}{10}$ or $\frac{1}{5}$		7		$1\frac{4}{5}$		$\frac{6}{5}$		0.6	
11		12		13		14		15	
372		£4.39		£16.59		£4.35		72	
16		17		18		19		20	
42		320		9900		156		32	


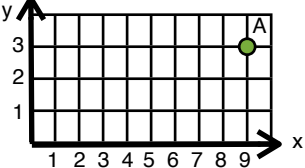
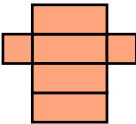
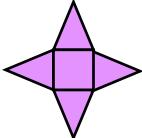
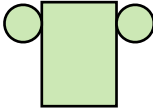
Revision Grids

1	Multiplying	2	Multiplying	3	Multiplying	4	Multiplying	5	Division
15 X 3		21 X 9		32 X 85		34 X 61		64 ÷ 8	
6	Dividing	7	Dividing	8	Dividing	9	Dividing	10	Percentages
72 ÷ 9		135 ÷ 5		128 ÷ 4		92 ÷ 3		50% of 60	
11	Percentages	12	Percentages	13	Percentages	14	Percentages	15	Percentages
10% of 130		20% of 200		25% of 40		75% of 80		I have £5 pocket money. I spend 10% on sweets and 50% on a magazine. How much money do I have left?	
16	FDP	17	FDP	18	FDP	19	Square numbers	20	Square numbers
0.25 is what as a percentage?		50% is what as a fraction?		$\frac{2}{10}$ is what as a decimal number?		Write out the first 10 square numbers		$3^2 + 5^2$	

Revision Grids- Answers

1	2	3	4	5
45	189	2720	2074	8
6	7	8	9	10
8	27	32	30 r 2 or $30\frac{2}{3}$	30
11	12	13	14	15
13	40	10	60	£2
16	17	18	19	20
25%	$\frac{1}{2}$	0.2	1, 4, 9, 16, 25, 36, 49, 64, 81, 100	34


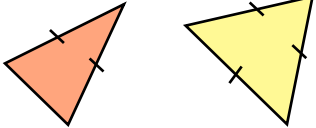
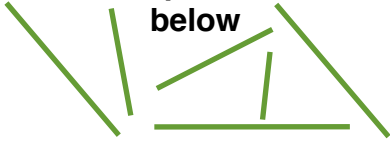
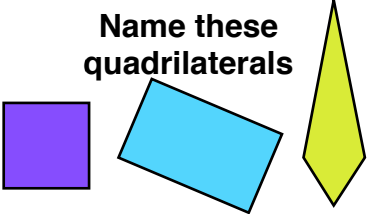


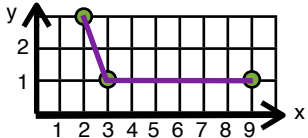
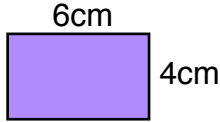

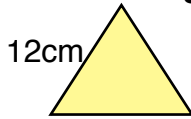
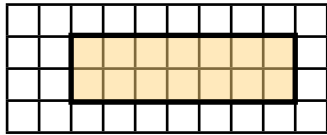
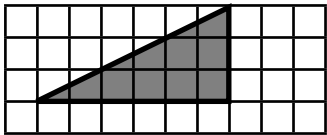
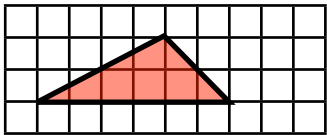
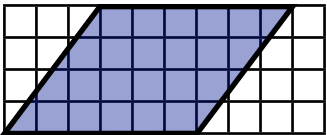
Revision Grids

1	Triangle numbers	2	Square roots	3	Square roots	4	Square roots	5	Cube numbers
Write down the first 6 triangle numbers		$\sqrt{36}$		Use a calculator to calculate $\sqrt{17}$		Explain why $\sqrt{27}$ must be between 5 and 6		Write down the first 5 cube numbers	
6	Cube numbers	7	Cube roots	8	Ratio	9	Ratio	10	Ratio
$2^3 + 3^3$		Use your calculator to work out $\sqrt[3]{64}$		What is the ratio of squares to triangles? 		Simplify the ratio 3:6		Which ratio is the odd one out? 4:10 2:6 8:20	
11	Coordinates	12	Equations	13	Equations	14	Equations	15	Sequences
Coordinate of point A 		I think of a number and add 5. The answer is 8. What number was I thinking of?		I think of a number and multiply it by 3 to get 15. What number was I thinking of?		I think of a number and call it x . After dividing x by 10 we get 3. What is x equal to?		Write down the next 3 terms in this sequence: 27, 24, 21, 18...	
16	Sequences	17	Nets	18	Nets	19	Nets	20	Nets
What is the rule for finding the next number in this sequence? 23, 28, 33, 38...		What 3D shape is this a net of? 		What 3D shape is this a net of? 		How many different nets of a cube are there? (no reflections or rotations allowed)		What 3D shape is this the net of? 	

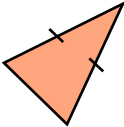

Revision Grids- Answers

1	2	3	4	5
1, 3, 6, 10, 15, 21	6	4.123105626...	Because $\sqrt{25} = 5$ and $\sqrt{36} = 6$ so $\sqrt{27}$ must be between 5 and 6	1, 8 27, 64, 125
6	7	8	9	10
35	4	3 : 2	1 : 2	2 : 6 The other two simplify to 2 : 5
11	12	13	14	15
(9 , 3)	3	5	30	15, 12, 9
16	17	18	19	20
Add 5	Cuboid	Square-based pyramid	11	Cylinder

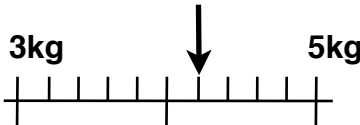


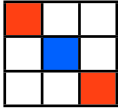


Revision Grids

1	Triangles	2	Triangles	3	Triangles	4	Triangles	5	Parallel lines
<p>Special name for this triangle</p> 		<p>Which one is the isosceles triangle?</p> 		<p>What is special about the lengths of the sides in an equilateral triangle?</p>		<p>Draw a scalene triangle</p>		<p>Draw arrows like this >> on the 2 parallel lines below</p> 	
6	Quadrilaterals	7	Quadrilaterals	8	Quadrilaterals	9	Quadrilaterals	10	Quadrilaterals
<p>Name these quadrilaterals</p> 		<p>What is the difference between a parallelogram and a rhombus?</p> 		<p>What is the difference between a parallelogram and a trapezium?</p> 		<p>I have two pairs of parallel sides and all my sides are the same length. What am I?</p>		<p>I have four angles the same size and two pairs of opposite sides the same length. What am I?</p>	
11	Quadrilaterals	12	Perimeter	13	Perimeter	14	Perimeter	15	Area
<p>Coordinate that makes this a parallelogram</p> 		<p>Perimeter of this shape?</p> 		<p>The perimeter of the shape is 16cm. What is the missing side length?</p> 		<p>Perimeter of this equilateral triangle?</p> 		<p>Area of this shape?</p> 	
16	Area	17	Area	18	Area	19	Time	20	Time
<p>Area of this shape?</p> 		<p>Area of this shape?</p> 		<p>Area of this shape?</p> 		<p>Write 8:45am as a 24-hour clock time</p>		<p>Write 9:17pm as a 24-hour clock time</p>	

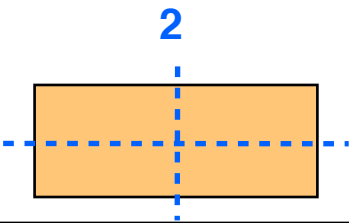
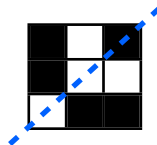
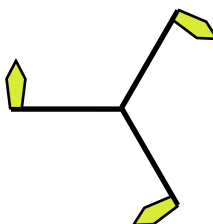
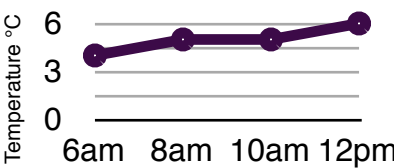
Revision Grids- Answers

1	2	3	4	5
Right angled triangle		All 3 sides are the same length	Any triangle where all 3 sides are different length	
6	7	8	9	10
Square Rectangle Kite	Rhombus: all sides the same length Parallelogram: 2 pairs of opposite sides the same length	Parallelogram: 2 pairs of parallel lines Trapezium: 1 pair of parallel lines	A square or a rhombus	A rectangle
11	12	13	14	15
(8 , 3)	20cm	3cm	36	14 square units
16	17	18	19	20
9 square units	6 square units	24 square units	845	2117

Revision Grids

1	Timetables	2	Time	3	Time	4	Units	5	Units									
<p>Time in mins to get from Fair Oak to Eastleigh?</p> <table border="1"> <tr> <td>Fair Oak</td> <td>1047</td> <td>1147</td> </tr> <tr> <td>Bishopstoke</td> <td>1059</td> <td>1159</td> </tr> <tr> <td>Eastleigh</td> <td>1113</td> <td>1213</td> </tr> </table>		Fair Oak	1047	1147	Bishopstoke	1059	1159	Eastleigh	1113	1213	<p>I leave my house at 0730 and walk to work. It takes me 35 mins to get to work. What time do I arrive?</p>		<p>I drive from Southampton to Norwich, leaving at 1115. It takes 4 hours 27 mins. What time do I arrive?</p>		<p>Estimate the length of your little finger in cm</p>		<p>Estimate the height of the classroom door in m</p>	
Fair Oak	1047	1147																
Bishopstoke	1059	1159																
Eastleigh	1113	1213																
6	Units	7	Units	8	Units	9	Units	10	Units									
<p>My pencil is 10cm long. Approximately how long is it in inches?</p>		<p>A house is 8m tall. Approximately how tall is it in feet?</p>		<p>A tree is planted in an orchard when it is 94cm tall. In 1 year it grows 43cm. How tall is it after 1 year in m?</p>		<p>An athlete is training for a 400m race. She does 5 practice races in a day. How far did she run that day in km?</p>		<p>The hair on your head grows about 1mm every 3 days. How many cm does it grow in 2 months?</p>										
11	Units	12	Units	13	Units	14	Symmetry	15	Symmetry									
<p>A box of cereal weighs 1kg. I eat 100g of cereal each day for a week. How many grams does the box weigh now?</p>		<p>I pour 2 cups of cola from a 1 litre bottle. Each cup holds 200ml. How much cola is left in the bottle in ml?</p>		<p>Weight shown by arrow in kg?</p> 		<p>How many lines of symmetry?</p> 		<p>Draw on all the lines of symmetry</p> 										
16	Symmetry	17	Symmetry	18	Symmetry	19	Line graphs	20	Two way tables									
<p>What order of rotational symmetry?</p> 		<p>What order of rotational symmetry?</p> 		<p>Add to this pattern to give it rotational symmetry order 3</p> 		<p>Plot a line graph to show this temperature data: 6am- 4°C, 8am- 5°C, 10am- 5°C, 12pm- 6°C</p>		<p>Fill in the missing numbers</p> <table border="1"> <tr> <td>Boys</td> <td>6</td> <td>5</td> </tr> <tr> <td>Girls</td> <td>8</td> <td></td> </tr> <tr> <td>Total</td> <td></td> <td>12</td> </tr> </table>		Boys	6	5	Girls	8		Total		12
Boys	6	5																
Girls	8																	
Total		12																

Revision Grids- Answers

1	26 mins	2	0805 (8:05am)	3	1542 (3:42pm)	4	4 to 8 cm	5	2 to 3 m									
6	4 inches	7	24 feet	8	1.37m	9	2 km	10	2 cm (assuming 1 month is 30 days)									
11	300 g	12	600 ml	13	4.2 kg	14	2 	15										
16	Order 2	17	Order 1. No rotational symmetry	18		19		20	<table border="1"> <tr> <td>Boys</td> <td>6</td> <td>5</td> </tr> <tr> <td>Girls</td> <td>8</td> <td>7</td> </tr> <tr> <td>Total</td> <td>14</td> <td>12</td> </tr> </table>	Boys	6	5	Girls	8	7	Total	14	12
Boys	6	5																
Girls	8	7																
Total	14	12																

Revision Grids- Design your own. Questions

1		2		3		4		5	
6		7		8		9		10	
11		12		13		14		15	
16		17		18		19		20	

Revision Grids- Design your own. Answers

1		2		3		4		5	
6		7		8		9		10	
11		12		13		14		15	
16		17		18		19		20	