

# Key Stage 2 Mathematics SATs Practice Papers

Levels 3 - 5 Set 2 - Answers



#### Visit www.Online-Maths-Tutor.com for

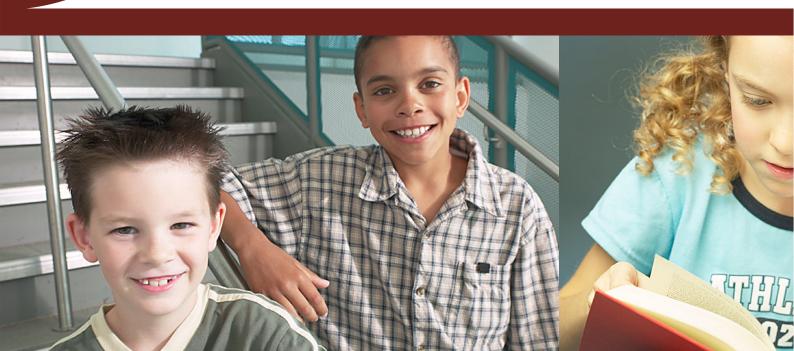
- ✓ Printable Resources
- ✓ Video Tutorials
- ✓ Online Classes



You are free to copy and share these test papers, as long as they are not changed in any way and you are using them for only **non-commercial** purposes.

If you would like to make them available on your **website**, please include a link to www.Online-Maths-Tutor.com, and the following text alongside the resource:

This resource is provided by www.Online-Maths-Tutor.com © G Baines BSc (Hons) PGCE. All Rights Reserved.

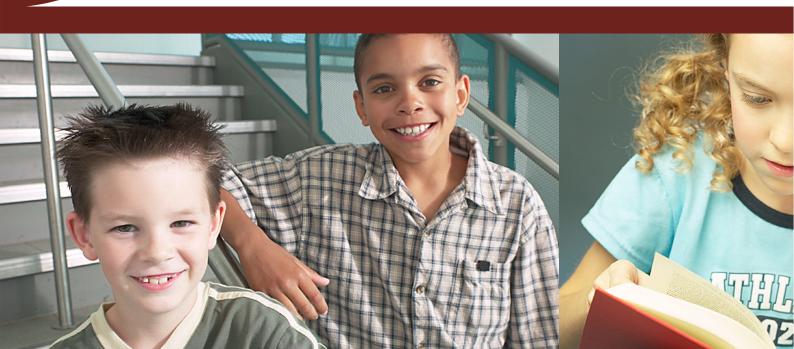




# KS2 Practice Papers - Set 2 - Answers

# Contents

Paper APage	4
Paper BPage	26
Mental Maths TestPage	49



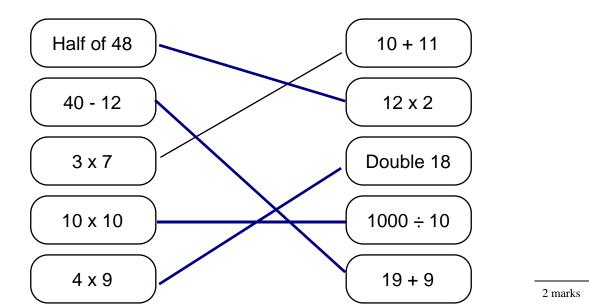


# KS2 Practice Papers - Answers

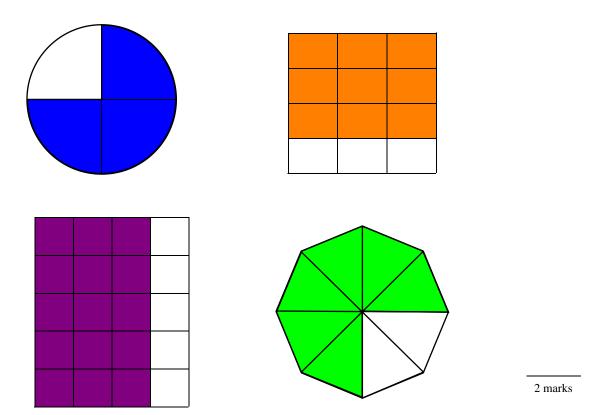
Set 2
Test Paper A
No Calculators Allowed
Time: 45 minutes



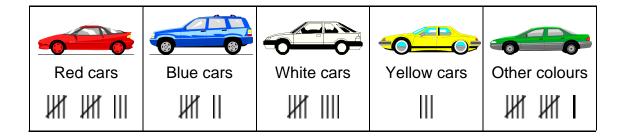
1 Draw lines to match the boxes that have the same value. One is already done.



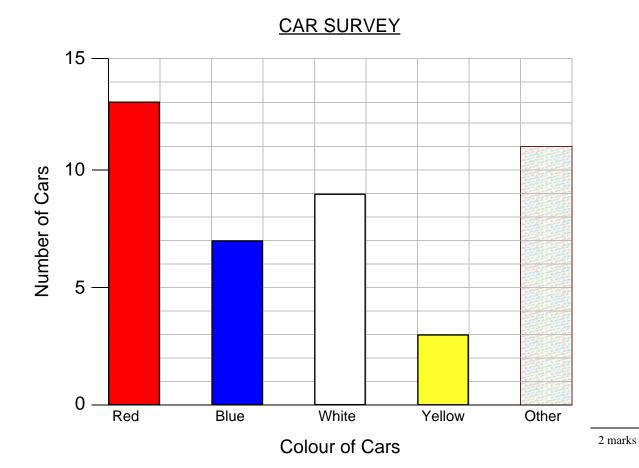
## 2 Shade three quarters of each shape.



Year 6 did a survey of the cars that passed the school gates between 10:00am and 11:00am. This tally chart shows how many cars they counted of each colour.



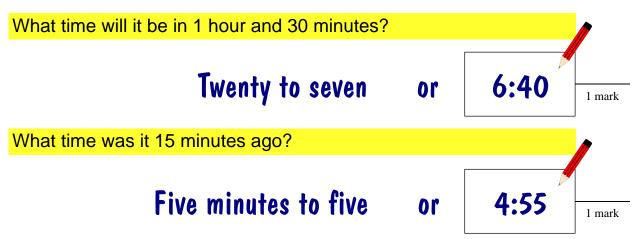
Complete the bar chart below.



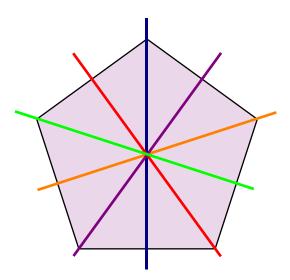
Write in the missing number to make both sides of the equation equal.

5 A clock shows this time.

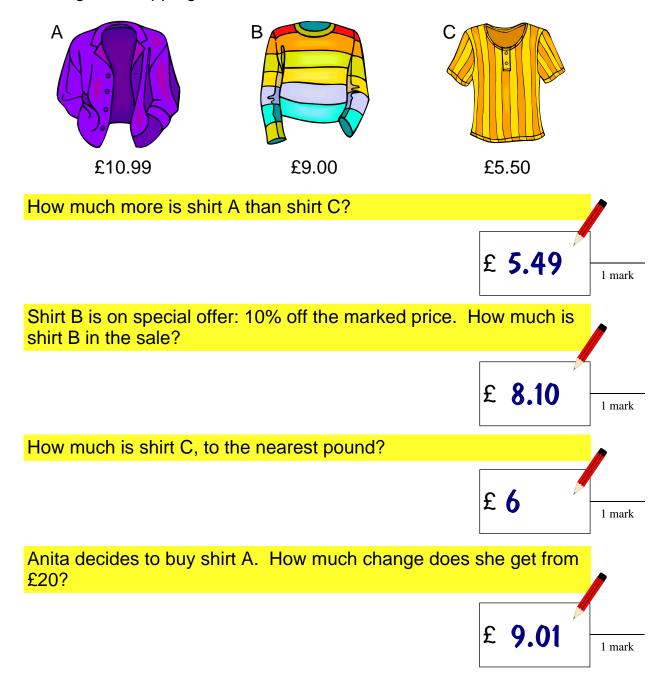




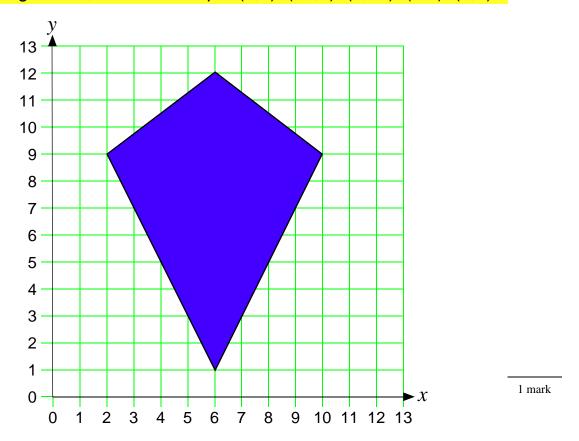
## 6 Draw all the lines of symmetry on this shape.



**7** Anita goes shopping for a new shirt.



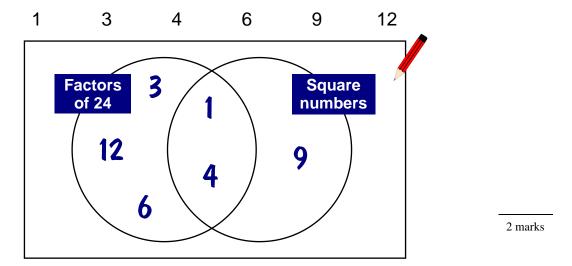
Mark these coordinates on the graph and join them up, in order, with straight lines, to form a shape: (6,1) (10,9) (6,12) (2,9) (6,1)



What is the name of the shape?



9 Write these numbers in the correct places on this diagram.



10 Jack rolls 2 dice (normal 6 sided dice) and adds together the two numbers he rolled.

Write down the probability of each of the following events using one of these words: impossible, unlikely, likely or certain.

His total score is 16.

His total score is less than 16.

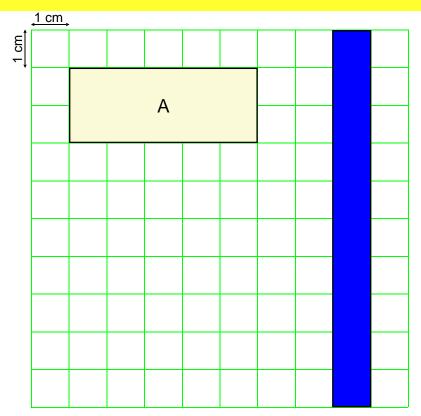
Certain

He rolls 2 sixes.

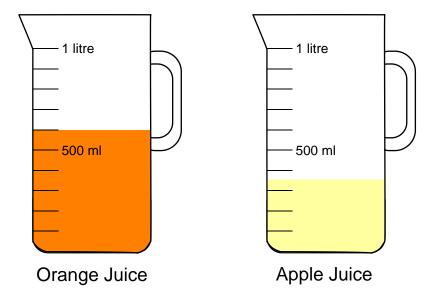
Unlikely

11 The area of rectangle A is 10 cm<sup>2</sup> and its perimeter is 14 cm.

Draw a rectangle that has an area of 10 cm<sup>2</sup> and a perimeter of 22 cm.



12 Kevin is making fruit punch. He mixes the following amounts of orange juice and apple juice together.



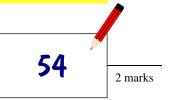
How many millilitres of punch does he make altogether?



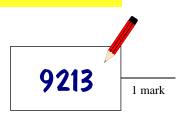
How many millilitres of grape juice should he add if he needs exactly 1 litre of punch?

50 ml 1 mark

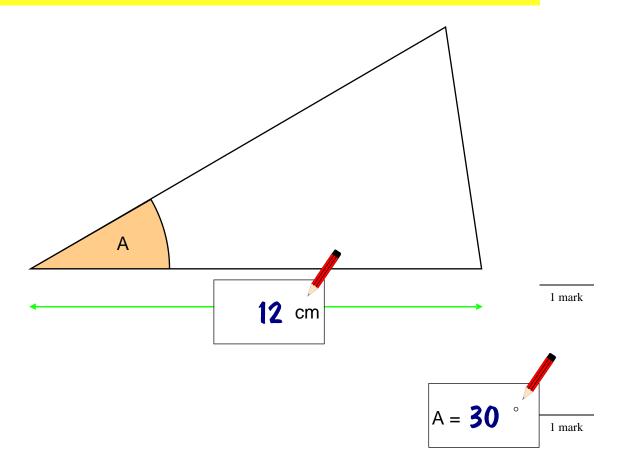
**Calculate 324 ÷ 6** 



#### 14 Calculate 249 x 37



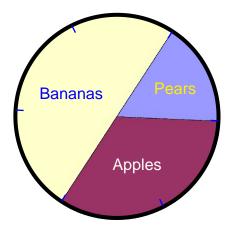
Use a ruler to accurately measure the length of the bottom of the triangle and a protractor to measure angle A.

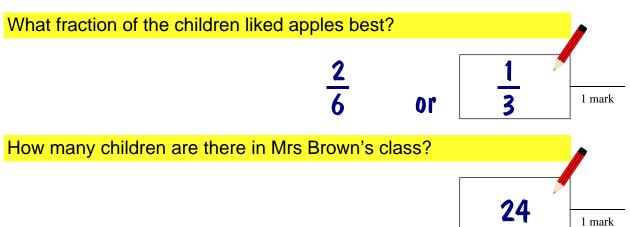


16 Circle all the fractions that are equivalent to  $\frac{1}{3}$ 

2 marks

Mrs Brown's class made this pie chart to show the pupils' favourite fruits. Four children said they liked pears best.





Fill in the next two numbers in the sequence.

70 55 40 25 10

-5

-20

2 marks

19 A recipe for pastry uses 100 grams of butter for every 200 grams of flour.

Joe makes pastry with 250 grams of butter. How much flour will he use?

500 g

I mark

Gemma makes pastry with 100 grams of flour. How much will the pastry weigh altogether (the butter and the flour)?

150 g

I mark

Jane needs to make 600 grams of pastry. How much butter will she need?

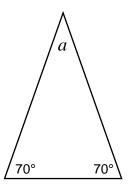
Write these numbers in order of size, from smallest to largest.

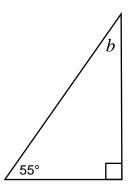
10.91 3.789 1.091 378.9 0.209

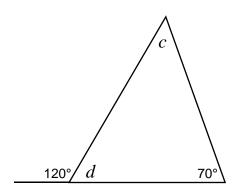
0.209 1.091 3.789 10.91 378.9 2 marks

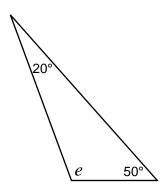
smallest largest

Calculate (not measure) the angles marked by letters. (Not drawn to scale.)









$$a = 40^{\circ}$$

$$b = 35^{\circ}$$

$$c = 50^{\circ}$$

$$d = 60^{\circ}$$

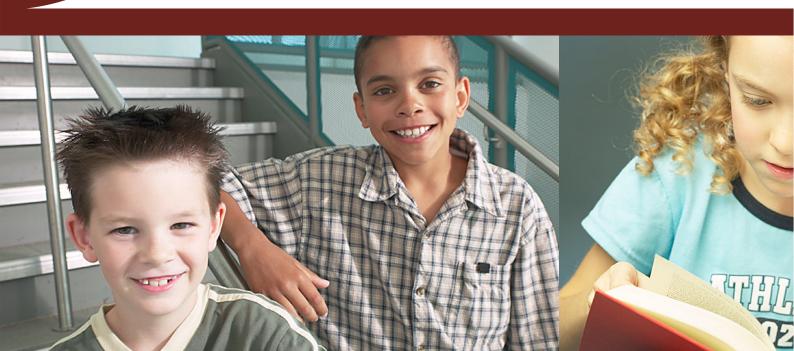
$$e = 110$$



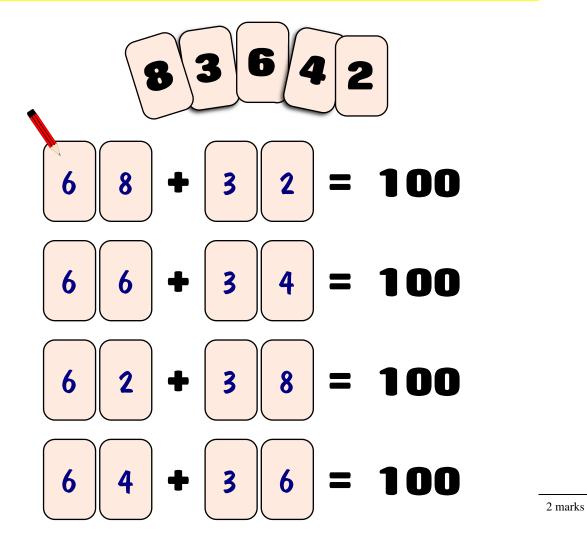


# KS2 Practice Papers - Answers

Set 2
Test Paper B
Calculators Allowed
Time: 45 minutes

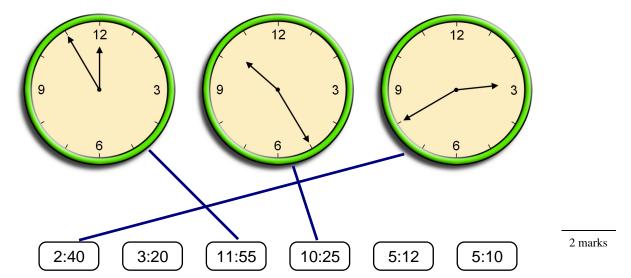


1 Use these number cards to make four <u>different</u> pairs of numbers that sum to 100. You may use each card as many times as you like.

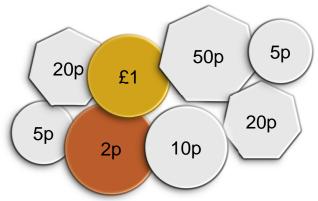


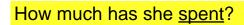
KS2 Practice Papers: Set 2, Paper B

## 2 Draw a line from each clock to the correct digital time.



3 Megan gets £5 pocket money. This is how much she has left.

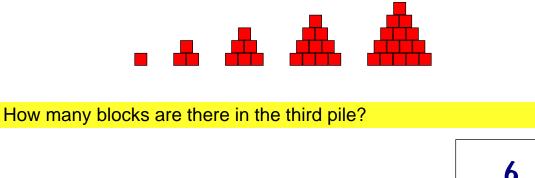




5.00 - 2.12



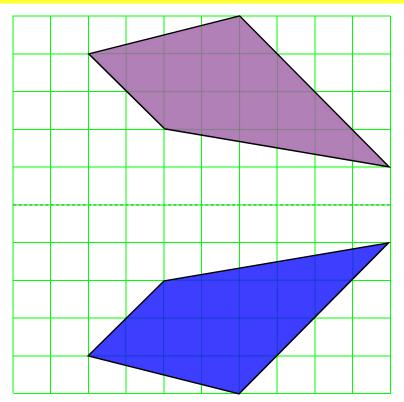
4 Liam made a pattern with red blocks.



How many blocks will there be in the sixth pile?

21

## 5 Draw the reflection of this shape in the mirror line.



6 A group of families went to the zoo. There were 6 adults and 15 children.

Ticket Sales			
Adults	£5.00		
Children	£2.50		

How much did they have to pay altogether?

 $(6 \times 5) + (15 \times 2.5)$ 

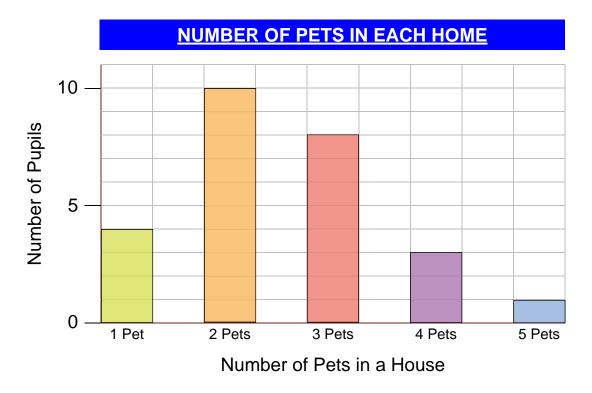
£ 67.50 1 mark

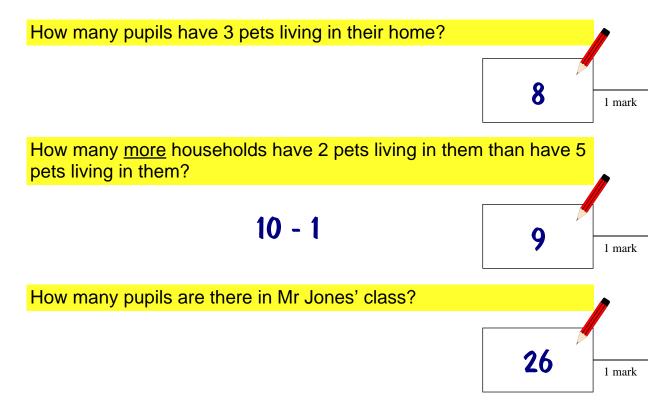
How much change do they get from £100?

100 - 67.5

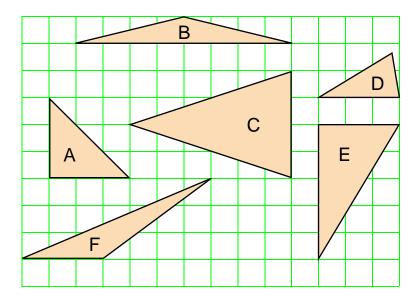
£ 32.50

7 Mr Jones' class did a survey of the number of pets in each pupil's home. This bar chart shows their results.





8 These 6 triangles are drawn on a square grid.



Where does each triangle fit in this table? Write its letter in the correct box. One has been done for you.

	Has a right angle	Has an obtuse angle	Has 3 acute angles	
isosceles	А	В	C	
scalene	E	F	D	

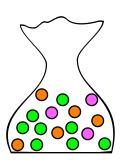
2 marks

9 Circle all the numbers that are factors of 24.

1 2 3 4 5 6 7 8 9 10

See the video for this question at www.Online-Maths-Tutor.com

Jacob makes up small bags of smarties for his friends. He puts 5 orange smarties, 3 pink smarties and 8 green smarties into each bag.



If a friend takes one smartie out of a bag, without looking, which colour is he least likely to pick?



How many smarties are there in 15 bags?

15 x 16

240 1 mark

There are 28 children in Jacob's class. If he gives each child two bags of smarties, how many green smarties will he need?

$$2 \times 8 = 16$$
  
 $28 \times 16 = 448$ 

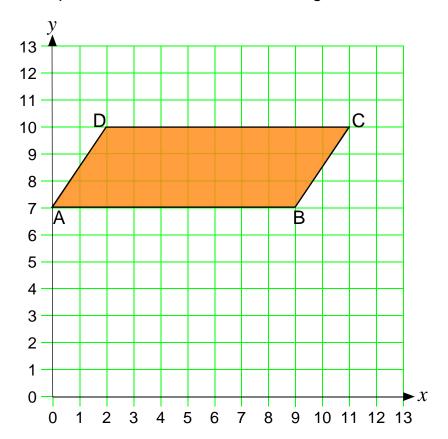
448

## Write one number in each box that fits with the table headings.

	Multiples of 321	Square Numbers	<b>*</b>
Less than 1000	321	1	
More than 1000	1284	10 000	2 mark

There are lots of possible answers. These are 4 easy choices.

A shaded shape is drawn on this coordinate grid. **12** 



What is the name of the shaded shape?

Parallelogram

1 mark

What are the coordinates of the vertices of the shape?

$$A = (0,7) B = (9,7)$$

$$B = (9,7)$$

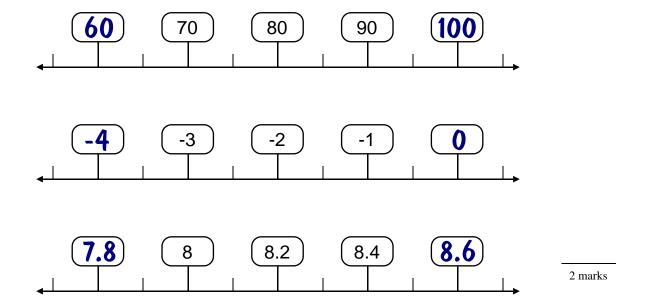
$$C = (11,10)$$

See the video for this question at <a href="www.Online-Maths-Tutor.com">www.Online-Maths-Tutor.com</a>

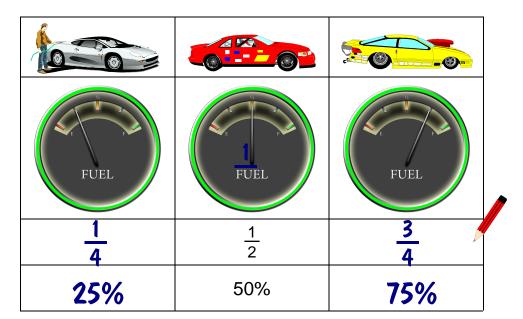
13 The numbers in this sequence increase by the same amount each time.

Fill in the missing nu	mbers.		<b>*</b>	
1	6	11	16	1 mark

Write in the missing numbers on each of these number lines.



How much petrol is left in each of these cars? Write the amounts first as a fraction and then as a percentage.



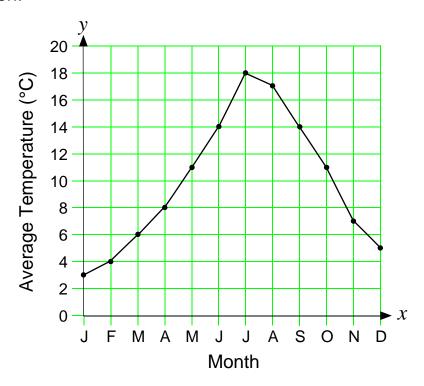
2 marks

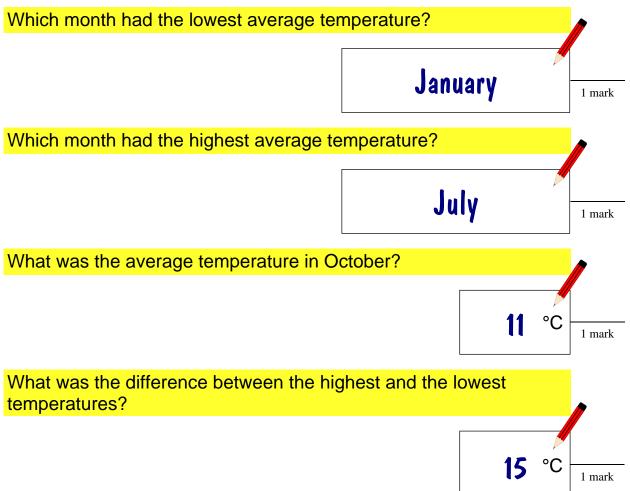
16 15 CDs cost £179.85. How much does one CD cost?

 $179.85 \div 15$ 

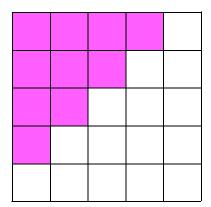


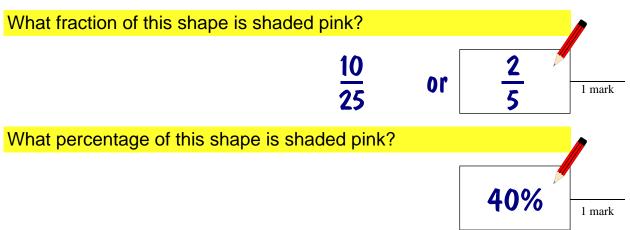
17 This line graph shows the average monthly temperature in one year in London.





18





Work out the answer to each of these calculations and write the answer down to the <u>nearest whole number</u>. The first one has been done for you.

	To the nearest whole number
27.4 + 133.1	161
2000 ÷ 3	667
35.9 ÷ 8	4
931 - 27.9	903
6.6 x (13.1 + 3.2)	108

2 marks

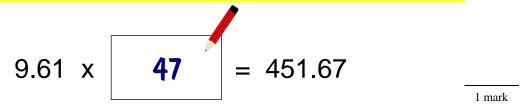
### See the video for this question at <a href="https://www.Online-Maths-Tutor.com">www.Online-Maths-Tutor.com</a>

## Circle the remaining 6 prime numbers in this number grid.

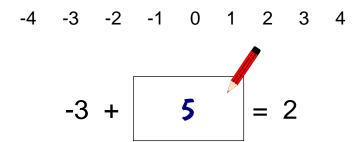
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30

2 marks

## Write in the missing number.



### Use this number line to help you complete the equation.



1 mark



# KS2 Practice Papers & Answers

Set 2
Mental Maths Test
No Calculators Allowed

www.Online-Maths-Tutor.com



## Taking the Test

- 1 You are allowed only a pen or pencil no ruler, rubber, calculator, mathematical equipment or extra paper.
- You are allowed to jot down quick notes if it helps you, but be careful not to write too much or it will take you too long and you might miss the next question.
- If you need to change an answer, neatly cross through the incorrect answer and write down the correct answer.
- 4 Some of the questions are harder than others, so don't worry if you can't answer them all.
- 5 Ask an adult or a friend to read the questions to you.
- Each question should be read twice, very clearly. Then the reader should time, using an accurate stopwatch, the correct number of seconds before reading the next question. For the first five questions you have 5 seconds to answer each question after it has been read. For the next ten questions you have 10 seconds to answer each question, and you have 15 seconds to answer each of the final five questions.



## **Test Questions**

#### 5 seconds each

- 1 What must be added to thirteen to make twenty?
- What is three quarters of twenty?
- 3 Subtract eight from eighty.
- 4 What is double twenty four?
- 5 What is half of five?

#### 10 seconds each

- 6 What is forty two multiplied by one hundred?
  - 7 How many twelves are there in sixty?
  - 8 An ice-cream costs eighty pence. How much do 3 ice-creams cost?
  - 9 What is five times nine, subtract ten?
- 10 Circle the fraction that is equal to twenty percent.
- 11 How many fours are there in two hundred and eighty?
- What is twenty percent of ninety?
- Emily starts school at nine am. She finishes six and a half hours later. What time does she finish school?
- 14 What is seven squared?
- What is the remainder when seventeen is divided by three?

#### 15 seconds each

- 16 Change one hundred and twelve millimetres into centimetres.
- Which number is subtracted from seven hundred to give four hundred and fifty?
- There are 36 red and yellow sweets in a bag. There are twice as many red sweets as yellow sweets. How many red sweets are in the bag?
- One third of a number is twenty six. What is the number?
- Calculate the perimeter of an equilateral triangle with sides of length eighteen centimetres.

#### www.Online-Maths-Tutor.com

## Mental Maths Test Paper

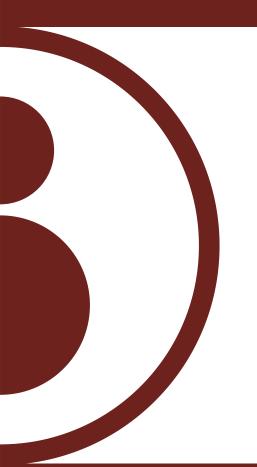
				Ans	wers			Notes
each	1							
	2							
5 seconds each	3							
5 sec	4							
	5							
	6							42
	7							60
	8	£						80p
ch	9							
10 seconds each	10	1/2	1/3	1/4	<u>1</u> 5	<u>1</u>	<u>1</u>	20%
secor	11							280
10	12							90
	13						pm	9 am
	14							
	15							17
15 seconds each	16						cm	112 mm
	17							450
	18							
15 se	19							26
	20						cm	18 cm

## Set 2 Mental Maths Test Answers

1	7	11	70
2	15	12	18
3	72	13	3:30 pm
4	48	14	49
5	2.5 or 2	15	2
6	4200	16	11.2 cm
7	5	17	250
8	£2.40	18	24
9	35	19	78
10	<u>1</u> 5	20	54 cm



# www.Online-Maths-Tutor.com



Visit www.Online-Maths-Tutor.com for

- ✓ Printable Resources
- ✓ Video Tutorials
- ✓ Online Classes

