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## KS2 Practice Papers - Set 2 - Answers

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# KS2 Practice Papers - Answers 



See the video for this question at www.Online-Maths-Tutor.com
1 Draw lines to match the boxes that have the same value. One is already done.


2 marks

See the video for this question at www.Online-Maths-Tutor.com
2 Shade three quarters of each shape.


2 marks

See the video for this question at www. Online-Maths-Tutor.com
3 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.

## CAR SURVEY



See the video for this question at www. Online-Maths-Tutor.com
4 Write in the missing number to make both sides of the equation equal.


5 A clock shows this time.


What time will it be in 1 hour and 30 minutes?

> Twenty to seven or


What time was it 15 minutes ago?

## Five minutes to five

6 Draw all the lines of symmetry on this shape.


See the video for this question at www. Online-Maths-Tutor.com
7 Anita goes shopping for a new shirt.

£10.99

$£ 9.00$

£5.50

How much more is shirt A than shirt C?


Shirt B is on special offer: $10 \%$ off the marked price. How much is shirt $B$ in the sale?

```
£ 8.10
```

How much is shirt C , to the nearest pound?


Anita decides to buy shirt A. How much change does she get from £20?


See the video for this question at www.Online-Maths-Tutor.com
8 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?


See the video for this question at www. Online-Maths-Tutor.com
9 Write these numbers in the correct places on this diagram.


2 marks

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

His total score is less than 16.


He rolls 2 sixes.
Unlikely
1 mark

See the video for this question at www. Online-Maths-Tutor.com
11 The area of rectangle $A$ is $10 \mathrm{~cm}^{2}$ and its perimeter is 14 cm .
Draw a rectangle that has an area of $10 \mathrm{~cm}^{2}$ and a perimeter of 22 cm .


1 mark

See the video for this question at www.Online-Maths-Tutor.com
12 Kevin is making fruit punch. He mixes the following amounts of orange juice and apple juice together.


Orange Juice


Apple Juice

How many millilitres of punch does he make altogether?

## 950 ml



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

See the video for this question at www.Online-Maths-Tutor.com
13 Calculate $324 \div 6$

$$
\begin{array}{r}
54 \\
6 \longdiv { 3 2 4 }
\end{array}
$$



See the video for this question at www.Online-Maths-Tutor.com
14 Calculate $249 \times 37$

See the video for this question at www.Online-Maths-Tutor.com
15 Use a ruler to accurately measure the length of the bottom of the triangle and a protractor to measure angle A.


See the video for this question at www.Online-Maths-Tutor.com
16 Circle all the fractions that are equivalent to $\frac{1}{3}$
$\frac{2}{10}$

See the video for this question at www. Online-Maths-Tutor.com
17 Mrs Brown's class made this pie chart to show the pupils' favourite fruits. Four children said they liked pears best.


What fraction of the children liked apples best?
$\frac{2}{6}$


How many children are there in Mrs Brown's class?


See the video for this question at www.Online-Maths-Tutor.com
18 Fill in the next two numbers in the sequence.
$\begin{array}{lllll}70 & 55 & 40 & 25 & 10\end{array}$


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

1 mark

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


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

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


See the video for this question at www. Online-Maths-Tutor.com
Calculate (not measure) the angles marked by letters. (Not drawn to scale.)


## KS2 Practice Papers - Answers



See the video for this question at www.Online-Maths-Tutor.com
1 Use these number cards to make four different pairs of numbers that sum to 100. You may use each card as many times as you like.


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


See the video for this question at www.Online-Maths-Tutor.com
3 Megan gets $£ 5$ pocket money. This is how much she has left.


How much has she spent?

$$
5.00-2.12
$$

See the video for this question at www. Online-Maths-Tutor.com
4 Liam made a pattern with red blocks.


How many blocks are there in the third pile?


How many blocks will there be in the sixth pile?

## 21

See the video for this question at www. Online-Maths-Tutor.com
5 Draw the reflection of this shape in the mirror line.


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

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



How much change do they get from $£ 100$ ?

$$
100-67.5
$$

See the video for this question at www.Online-Maths-Tutor.com
7 Mr Jones' class did a survey of the number of pets in each pupil's home. This bar chart shows their results.


How many pupils have 3 pets living in their home?


How many more households have 2 pets living in them than have 5 pets living in them?

$$
10-1
$$



How many pupils are there in Mr Jones' class?


See the video for this question at www. Online-Maths-Tutor.com
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 <br> right angle | Has an <br> obtuse angle | Has 3 <br> acute angles |
| :---: | :---: | :---: | :---: |
| isosceles | A | $\mathbf{B}$ | 6 |
| scalene | $E$ | 5 | 0 |

2 marks

See the video for this question at www.Online-Maths-Tutor.com
$9 \quad$ Circle all the numbers that are factors of 24.
(1)
(2) 3
5

(8) 9
10

See the video for this question at www. Online-Maths-Tutor.com
10 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?
pink

How many smarties are there in 15 bags?

## $15 \times 16$



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

## $2 \times 8=16$

$28 \times 16=448$


See the video for this question at www. Online-Maths-Tutor.com
11 Write one number in each box that fits with the table headings.


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

See the video for this question at www.Online-Maths-Tutor.com
12 A shaded shape is drawn on this coordinate grid.


What is the name of the shaded shape?

## Parallelogram

What are the coordinates of the vertices of the shape?

$$
A=(0,7)
$$

$B=(9,7)$
$C=(11,10)$
$D=(2,10)$
1 mark

See the video for this question at www.Online-Maths-Tutor.com
13 The numbers in this sequence increase by the same amount each time.

Fill in the missing numbers.


See the video for this question at www.Online-Maths-Tutor.com
14 Write in the missing numbers on each of these number lines.


See the video for this question at www.Online-Maths-Tutor.com
15 How much petrol is left in each of these cars? Write the amounts first as a fraction and then as a percentage.


2 marks

See the video for this question at www.Online-Maths-Tutor.com
15 CDs cost £179.85. How much does one CD cost?

## $179.85 \div 15$

See the video for this question at www.Online-Maths-Tutor.com
17 This line graph shows the average monthly temperature in one year in London.


Which month had the lowest average temperature?

Which month had the highest average temperature?
July
What was the average temperature in October?


What was the difference between the highest and the lowest temperatures?

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


What fraction of this shape is shaded pink?
$\frac{10}{25}$


What percentage of this shape is shaded pink?

See the video for this question at www. Online-Maths-Tutor.com
19 Work out the answer to each of these calculations and write the answer down to the nearest whole number. The first one has been done for you.

|  | To the nearest <br> whole number |
| :--- | :---: |
| $27.4+133.1$ | 161 |
| $2000 \div 3$ | $\mathbf{6 6 7}$ |
| $35.9 \div 8$ | $\mathbf{4}$ |
| $931-27.9$ | $\mathbf{9 0 3}$ |
| $6.6 \times(13.1+3.2)$ | $\mathbf{1 0 8}$ |

See the video for this question at www.Online-Maths-Tutor.com
20 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 |

See the video for this question at www. Online-Maths-Tutor.com
21 Write in the missing number.


See the video for this question at www. Online-Maths-Tutor.com
22 Use this number line to help you complete the equation.


1 mark

# KS2 Practice Papers \& Answers 

## Set 2 Mental Maths Test No Calculators Allowed <br> 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.

2 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.

3 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.
6 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.


KS2 Practice Papers: Set 2, Mental Maths Test
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## Test Questions

## 5 seconds each

1 What must be added to thirteen to make twenty?
2 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?
12 What is twenty percent of ninety?
13 Emily starts school at nine am. Sh
14 What is seven squared?
15 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?

18
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?
19 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.

Mental Maths Test Paper


KS2 Practice Papers: Set 2, Mental Maths Test
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## Set 2 Mental Maths Test Answers

| 1 | 7 | 11 | 70 |
| :--- | :--- | :--- | :--- |
| 2 | 15 | 12 | 18 |
| 3 | 72 | 13 | $3: 30 \mathrm{pm}$ |
| 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 | $\frac{1}{5}$ | 20 | 54 cm |

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