

Key Stage 2 Mathematics SATs Practice Papers

Levels 3 - 5
Set 1 - Answers

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KS2 Practice Papers - Set 1 - Answers

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KS2 Practice Papers - Answers

Set 1

Test Paper A

No Calculators Allowed

Time: 45 minutes

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

1 Here are three digit cards.



Write down the biggest number that can be made from these cards.

| | |
|-----|--------|
| 943 | _____ |
| | 1 mark |


Write down the smallest number that can be made from these cards.

| | |
|-----|--------|
| 349 | _____ |
| | 1 mark |


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

2


Fill in the missing numbers.


$$\boxed{60} \times 5 = 300$$

1 mark


$$32 + \boxed{68} = 100$$



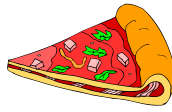






1 mark


$$150 \div 3 = \boxed{50}$$

1 mark

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

3 A restaurant sells the following items:

| | | |
|---|---|---|
|  Hamburger 80p |  Hotdog 50p |  1 Slice Pizza £1.60 |
|  Glass of Milk 80p |  1 Box Apple Juice 55p |  Large Fries 89p |
|  1 Banana 55p |  1 Doughnut 35p |  Cherry Sundae 75p |

If you bought a slice of pizza, a box of apple juice and a doughnut, how much would you have to pay?

$$\begin{array}{r} 1.60 \\ + 0.55 \\ + 0.35 \\ \hline 2.50 \end{array}$$

£ 2.50

1 mark

How much change would you get from £5.00?

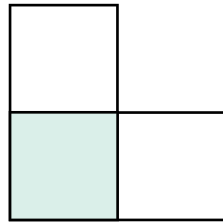
$$\begin{array}{r} 5.00 \\ - 2.50 \\ \hline 2.50 \end{array}$$


£ 2.50

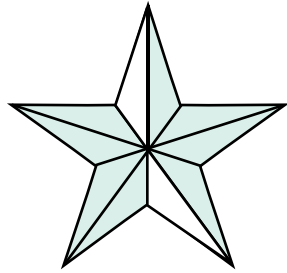
1 mark


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

4 What fraction of each of these shapes is shaded?



$\frac{1}{3}$  _____
1 mark




$\frac{8}{10}$ or $\frac{4}{5}$  _____
1 mark

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

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

| | Multiples of 7 | Factors of 12 |
|--------------|---|--------------------------------|
| Even Numbers | <p>(14) (28) (42)</p> <p>(56) (70) (84)</p> | <p>(2) (4)</p> <p>(6) (12)</p> |
| Odd Numbers | <p>(7) (21) (35)</p> <p>(49) (63) (77)</p> | <p>(1) (3)</p> |



2 marks

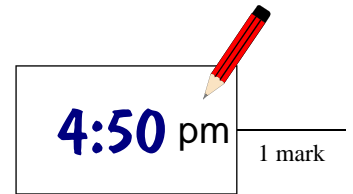
You only need to put **ONE** number in each box.

These are all the factors of 12, but there are lots of other possible multiples of 7.

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


- 6 Jane's after school club starts at 3:15pm. Jane stays for 1 hour and 35 minutes.

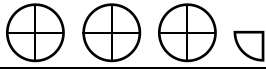
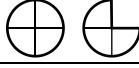

What time does she leave?



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

- 7 Year 6 went on a trip to the zoo. This pictogram shows how many monkeys, tigers and tortoises they saw.

 stands for 8 animals

| | |
|-----------|--|
| Monkeys |  |
| Tigers |  |
| Tortoises |  |

How many tortoises did they see?


20

1 mark

How many more monkeys did they see than tigers?

26 - 14


12

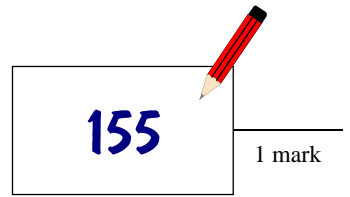
1 mark

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

8

What is the difference between 520 and 365?


$$\begin{array}{r} 520 \\ - 365 \\ \hline 155 \end{array}$$





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

9 Pick 3 of these numbers to make 1000.

150 250 450 50 950
 300 650 100 150

$$1000 = \boxed{650} + \boxed{250} + \boxed{100}$$


$$1000 = \boxed{650} + \boxed{300} + \boxed{50}$$


$$1000 = \boxed{450} + \boxed{300} + \boxed{250}$$


You only need to give **ONE** of these answers.

1 mark

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

10 Fill in the correct sign: $>$, $<$ or $=$

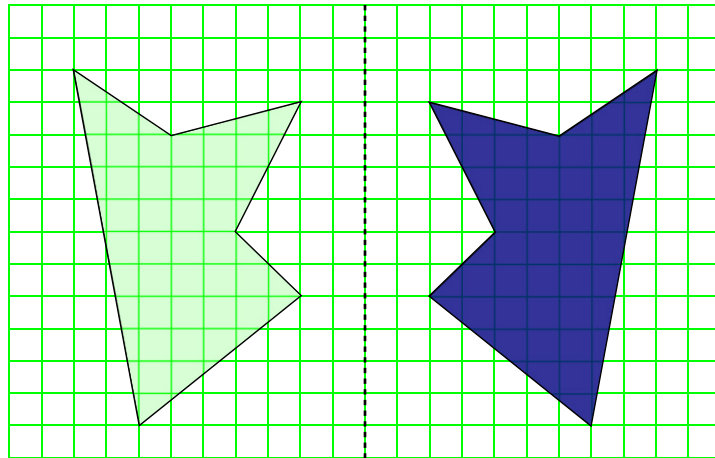
$$(5 + 14) - 10 \quad \boxed{=} \quad 5 + (14 - 10)$$
$$4 \times (7 + 2) \quad \boxed{>} \quad (4 \times 7) + 2$$
$$5 \times (20 - 12) \quad \boxed{<} \quad (5 \times 20) - 12$$

3 marks

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

11

Draw the reflection of this shape in the mirror line.

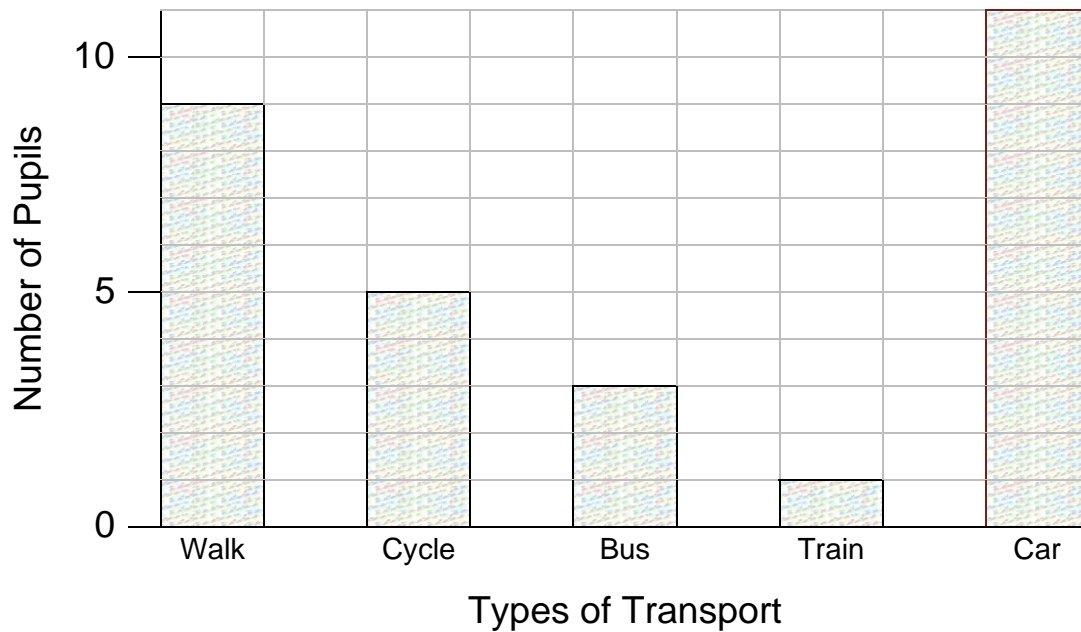


1 mark

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

- 12** This bar chart shows how the pupils in Mr Smith's class get to school.

HOW OUR CLASS GETS TO SCHOOL



How many pupils travel to school by car?

11

1 mark

What is the least common type of transport?

train

1 mark

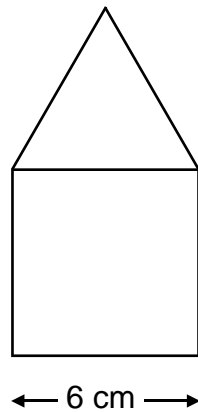
How many pupils are there in Mr Smith's class?

29

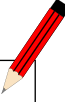
1 mark

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

- 13** Lucy made a house shape with a square and an equilateral triangle.

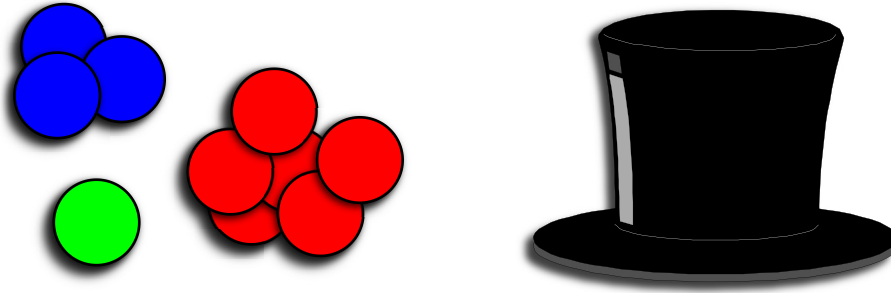


What is the perimeter of the whole shape?

30 cm  1 mark

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

- 14 Peter puts 6 red counters, 3 blue counters and one green counter into a hat.



Write down the likelihood (impossible, unlikely, likely or certain) of each of the following.

Without looking, he pulls out a green counter.

unlikely

Without looking, he pulls out a red counter.

likely

Without looking, he pulls out a yellow counter.

impossible

1 mark

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

15

Cherries cost 80p for 100 grams.
Grapes cost 50p for 100 grams.



How much does it cost to buy 250 grams of cherries?

£ 2.00

1 mark

How many grams of grapes can you buy for £2.00?

400 g

1 mark

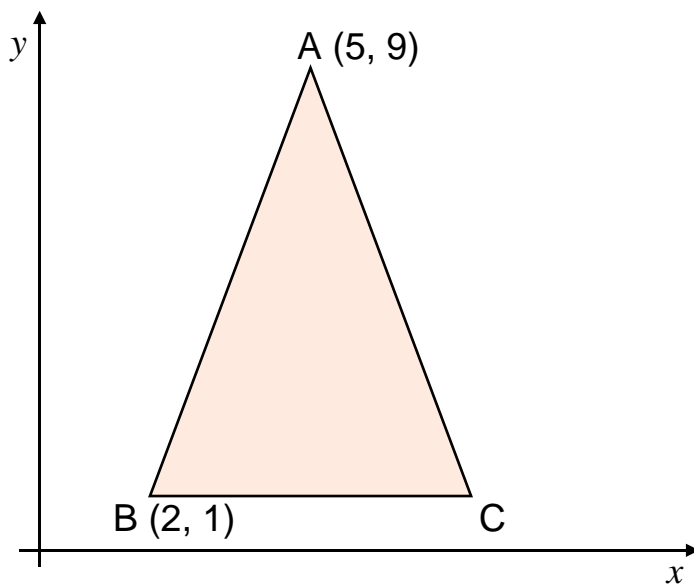
Heidi buys 50 grams of cherries and 50 grams of grapes. How much does she pay?

65 p


1 mark

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

16 This is an isosceles triangle.



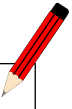
What are the coordinates of point C?

(8 , 1)  1 mark

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

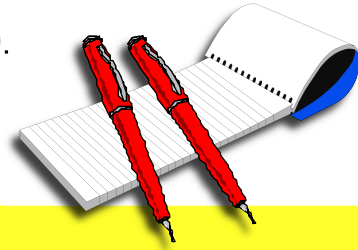
17 What is the height of this rectangle in centimetres? Use a ruler to measure accurately.




2.3 cm 1 mark

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

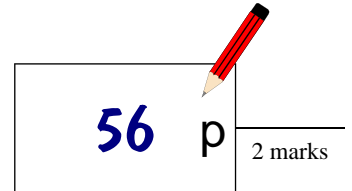
- 18** Sam bought a notepad and two pens for £2.30.
A notepad costs £1.18.



How much does one pen cost?

$$2.30 - 1.18 = 1.12$$

$$1.12 \div 2 = 0.56$$



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

- 19** This sequence of numbers increases by 25 each time.

25 50 75 100 125 150...

The sequence continues.

Explain why 2013 is not in the sequence.

Each number in the sequence is a multiple of 25.

Every multiple of 25 ends in a zero or a five.

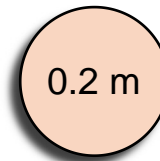
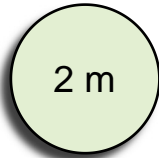
2013 cannot be in the sequence because it does not end in a zero or a five.

1 mark

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

20

Put these lengths in order, from shortest to longest.



0.2 m

22 cm

250 mm

2 m

250 cm



2 marks


shortest

longest

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

21 Which of these fractions is smaller?


$$\frac{3}{5} \text{ or } \frac{2}{3}$$



$$\frac{3}{5}$$

1 mark

Explain how you worked it out.



**I converted each fraction into fifteenths
and found which one had fewer fifteenths.**

$$\frac{3}{5} = \frac{9}{15}$$

$$\frac{2}{3} = \frac{10}{15}$$

1 mark

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

22

Calculate $10.7 - 3.85$

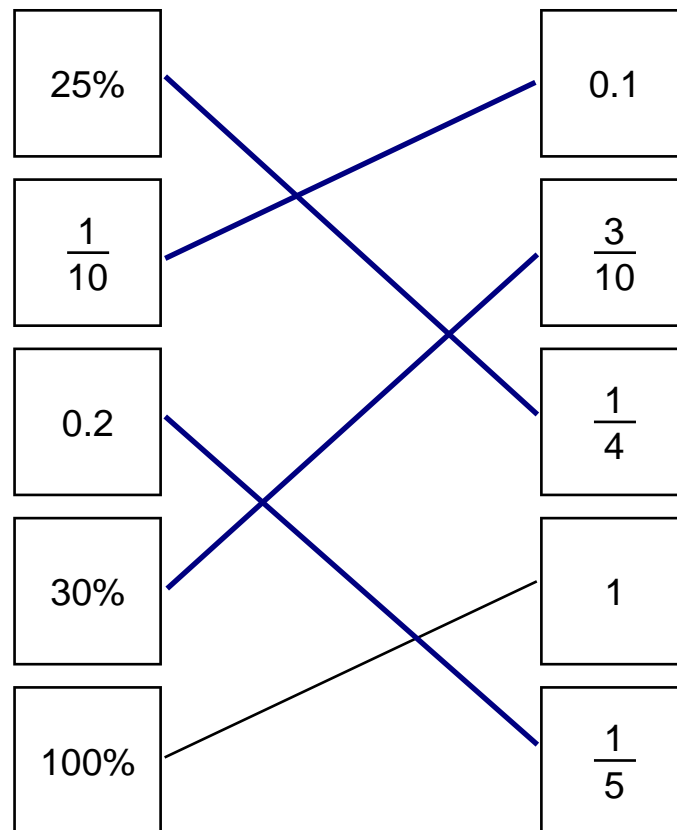
$$\begin{array}{r} 10.70 \\ - 3.85 \\ \hline 6.85 \end{array}$$



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

23

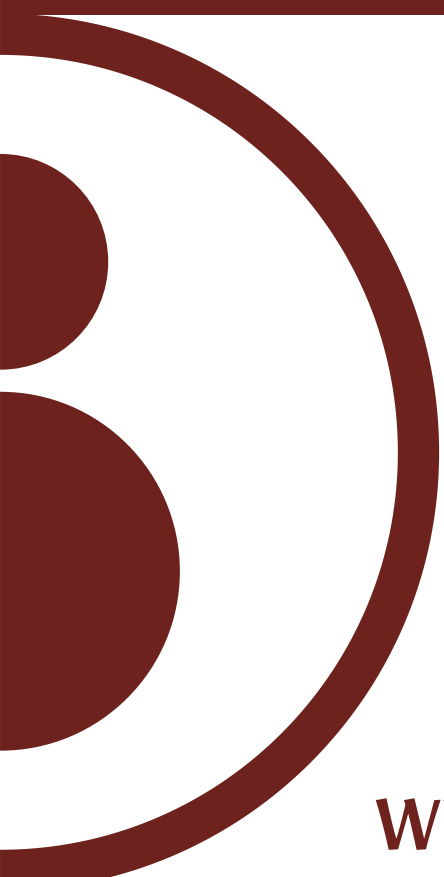
Draw lines to connect the equivalent amounts. One has been done for you.



2 marks



KS2 Practice Papers - Answers



Set 1
Test Paper B
Calculators Allowed
Time: 45 minutes

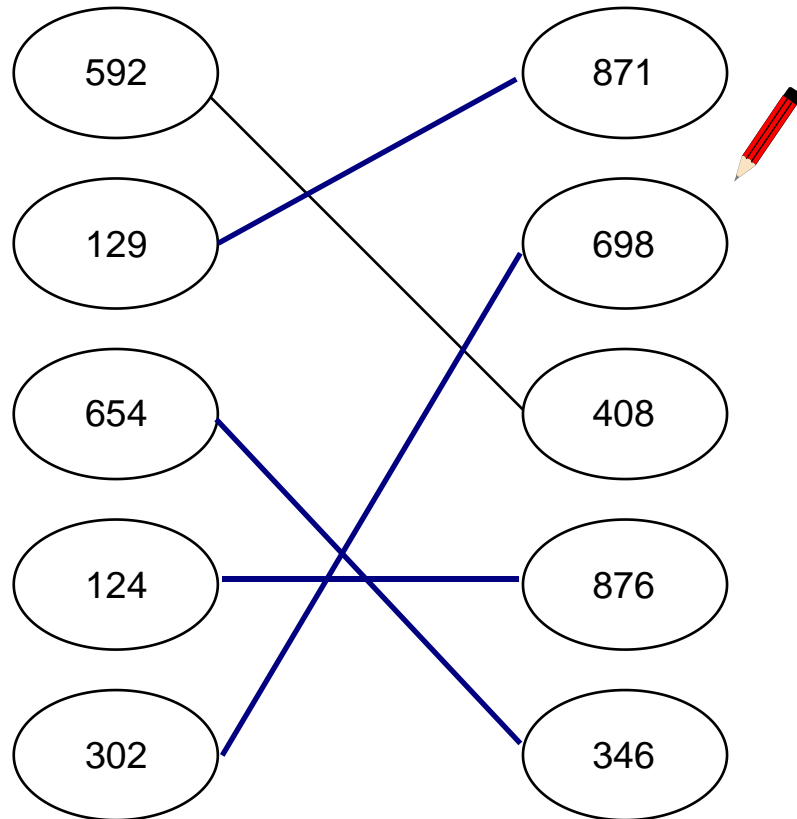
www.Online-Maths-Tutor.com



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

1

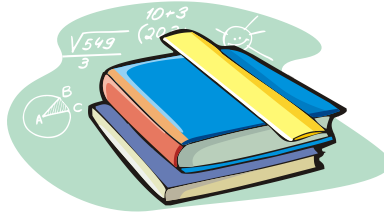
Draw a line to join the pairs of numbers that add up to 1000. The first one has been done for you.



1 mark

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

- 2 There are 320 pupils in Greenwood Primary School. The school bought 1600 exercise books which were shared equally among the pupils.



How many books did each pupil get?

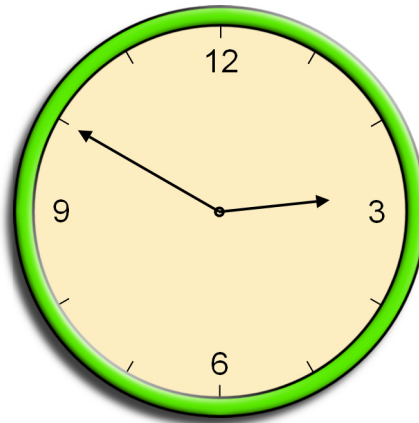
$$1600 \div 320$$



5

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

3 Joshua went for a walk at this time:



He arrived back home 25 minutes later.

What time did he arrive home?

Quarter past three

or

3:15

1 mark

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

- 4 A clown juggles with 7 balls: 1 pink, 2 purple and 4 orange.
He drops one ball.

Which colour is he most likely to drop?

orange

Which colour is he least likely to drop?

pink

How likely is it that he drops a blue ball?










impossible



2 marks

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

- 5 Amy is preparing for her birthday party. She wants to make some little party bags for her friends. She sees these items at a shop:

| | | |
|--|--|--|
|  Sweets 1p each |  Box of Pencils 80p |  Whistle 55p |
|  Windmill 27p |  Torch 99p |  Party Pack 39p |
|  Fan 42p |  Kite £1.60 |  Spinning Top 65p |

Amy is inviting 9 friends.

If she buys them each 3 sweets, one windmill and one party pack, how much will she pay?

$$3 + 27 + 39 = 69$$

$$69 \times 9 = 621$$

£ 6.21

1 mark

How much change would she get from £10.00?

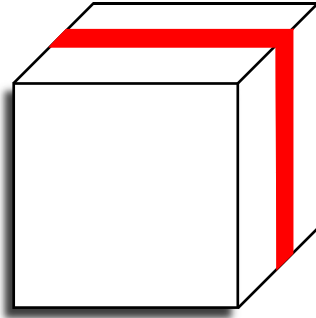
$$10 - 6.21$$

£ 3.79

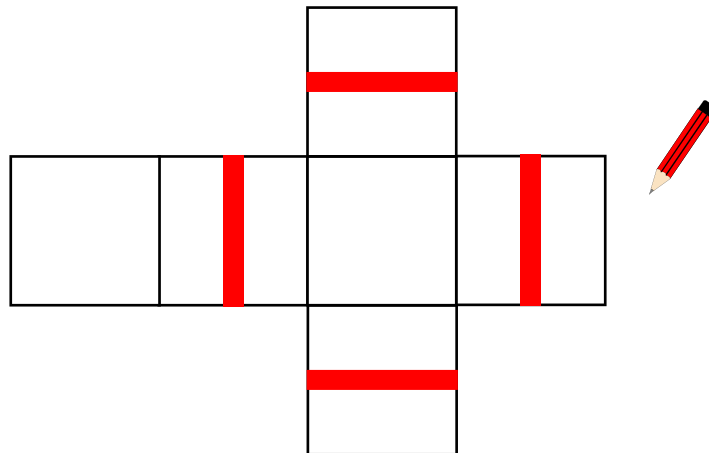
1 mark

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

- 6 Grace made a box from the net below and then painted a red stripe all the way around the box.



If she opened the box up again to show the net, where would the red stripes be? Draw them onto the net. One has been done for you.




1 mark

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

7 Complete these three digit numbers to make the following multiples

A multiple of 3

| | | |
|---|---|---|
| 5 | 0 | 1 |
|---|---|---|



A multiple of 4

| | | |
|---|---|---|
| 5 | 1 | 2 |
|---|---|---|

A multiple of 5

| | | |
|---|---|---|
| 5 | 9 | 0 |
|---|---|---|

2 marks

There are lots of possible answers.

Remember the rules for divisibility:

A number is divisible by 3 if the digits add up to a multiple of 3.

$$5 + 0 + 1 = 6 \quad \checkmark \quad 6 \text{ is in the 3 times table.}$$

A number is divisible by 4 if its last two digits are a multiple of 4.

$$\underline{51}2 \quad \checkmark \quad 12 \text{ is in the 4 times table}$$

A number is divisible by 5 if it ends in five or zero.

$$590 \quad \checkmark \quad \text{ends in zero so it is a multiple of 5.}$$

Check your answers with a calculator.

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

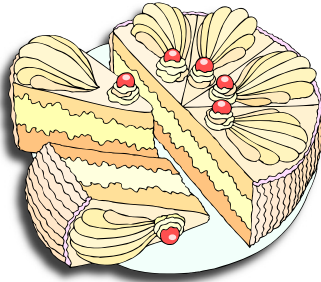
8 Calculate the value of: $(35 + 49) \div 7$

12

1 mark

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

- 9 Mrs Peters is buying cakes for a school picnic. Each cake is cut into 8 slices.



If she buys 15 cakes, how many slices will she have?

$$15 \times 8$$

120

1 mark

If she needs 280 slices, how many cakes will she have to buy?

$$280 \div 8$$

35

1 mark

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

10 This chart shows the different sports that 5 pupils play.

| | Football | Running | Netball | Tennis | Karate |
|---------|----------|---------|---------|--------|--------|
| Thomas | ✓ | ✓ | | ✓ | |
| Joseph | | ✓ | | | ✓ |
| Matthew | ✓ | | | ✓ | ✓ |
| Hannah | | | | ✓ | |
| Emma | | ✓ | ✓ | ✓ | ✓ |

Which is the most popular sport?

Tennis

1 mark

Who plays both tennis and football?

Thomas and Matthew

1 mark

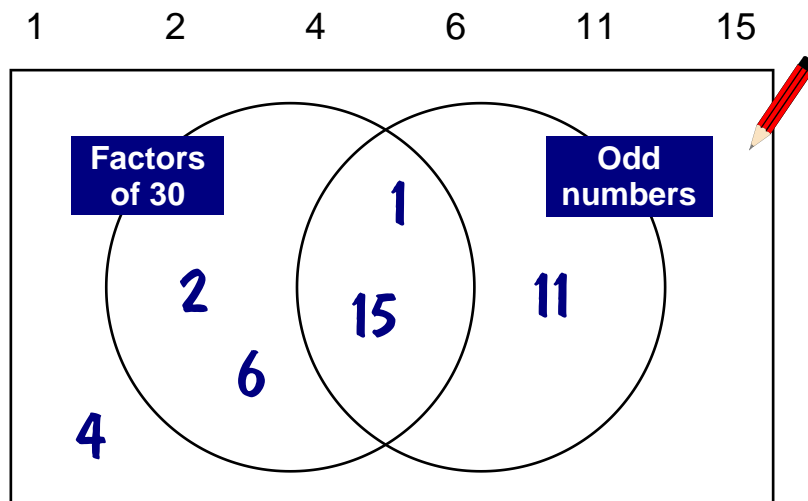
How many children play more than two sports?

3

1 mark

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

11 Write these numbers in the correct places on this Venn diagram.



2 marks

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

- 12 A bag of 12 apples costs £3.72.



How much does one apple cost?

$$3.72 \div 12$$

£ 0.31

1 mark

Max buys 8 bags of apples. How much does he spend, rounded to the nearest pound?

$$8 \times 3.72 = 29.76$$

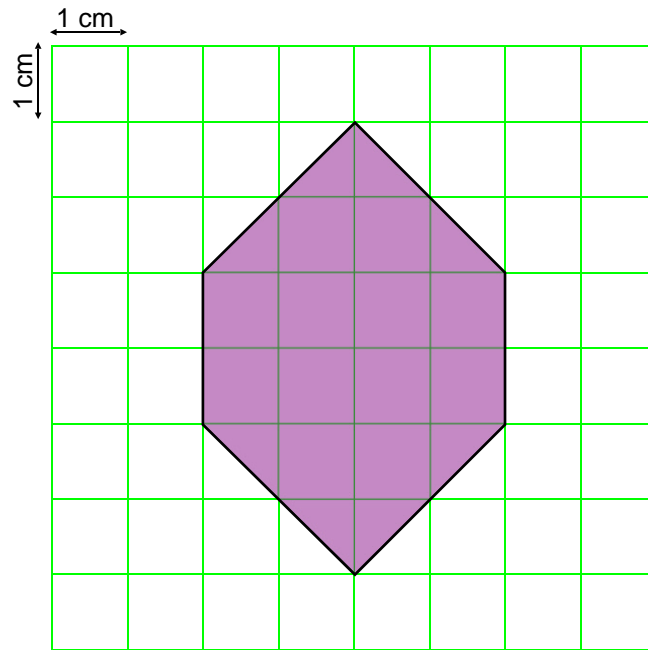
$$29.76 \approx 30$$

£ 30

1 mark

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

- 13** The shaded shape is drawn on a 1 cm square grid.



What is the area of the shaded shape?

16 cm²

1 mark

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

- 14** To form the following sequence, Holly subtracts 5 from the previous number, and then doubles the result.

Fill in the next two numbers in the sequence.

14 18 26 42 74 138

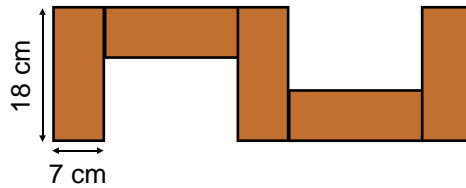
266

522

1 mark

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

- 15** Leah makes a shape with 5 identical rectangles, each with width 7 cm and length 18 cm.



What is the area of one rectangle?

$$7 \times 18$$

$$126 \text{ cm}^2$$

1 mark

What is the area of the whole shape?

$$5 \times 126$$

$$630 \text{ cm}^2$$

1 mark

What is the perimeter of the whole shape?

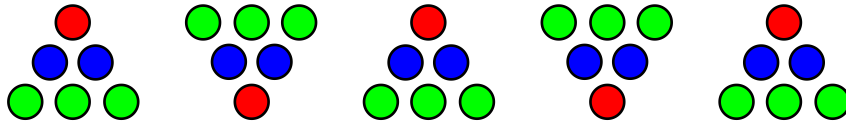
$$(6 \times 7) + (6 \times 18) + (4 \times 11)$$

$$194 \text{ cm}$$

1 mark

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

- 16** Alex made a pattern with some counters. He used three green counters and two blue counters for every one red counter.



The pattern continues.

If he uses 510 counters altogether, how many counters will he need of each colour?

He will need 85 red counters

1 mark

He will need 170 blue counters

1 mark

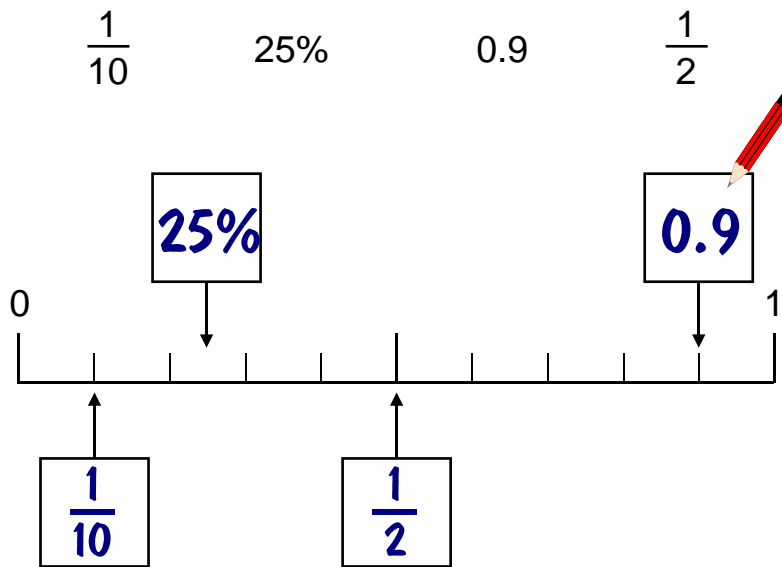
He will need 255 green counters

1 mark

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

17

Write these numbers in the correct boxes on the number line.

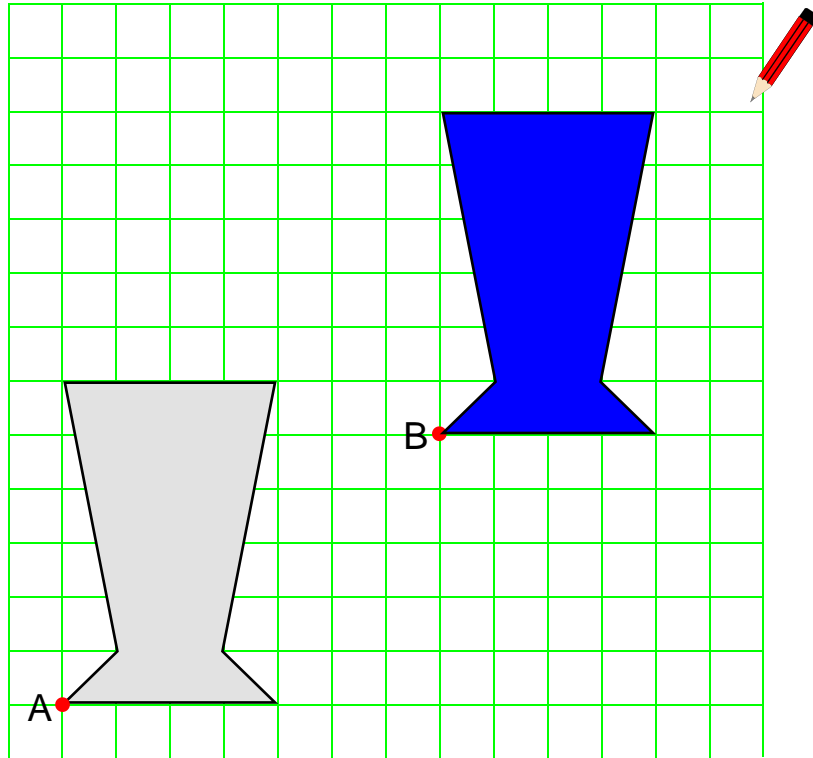


2 marks

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

- 18** Jacob cuts a shape out of a piece of card and places it on squared paper. He then slides the shape 7 squares across and 5 squares up.

Point A moves to point B. Draw the shape in its new position.

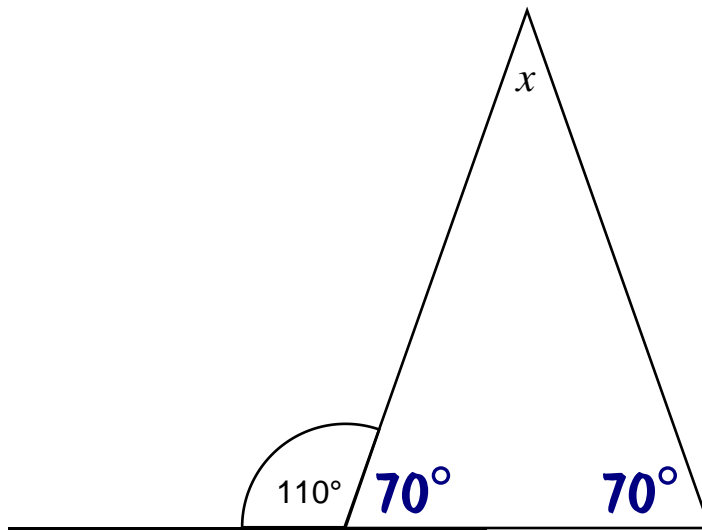



1 mark

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

19 Here is an isosceles triangle.

Calculate (don't measure) the angle marked x .



$x = 40^\circ$  2 marks

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

20

Calculate $\frac{2}{7}$ of 182.

$$182 \div 7 = 26$$

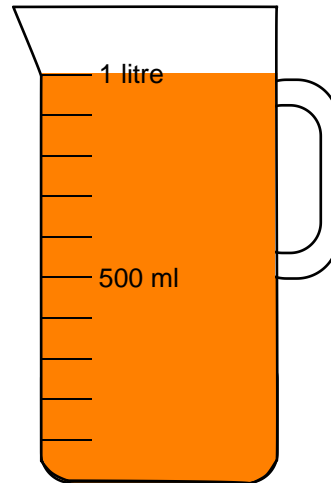
$$26 \times 2 = 52$$

52

1 mark

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

- 21** Adam shared one litre of orange juice between 8 people.



How many millilitres did each person get?

$$1000 \div 8$$

125 ml

1 mark

If he wanted to give each person 300ml of orange juice, how many litres of orange juice would he need altogether?

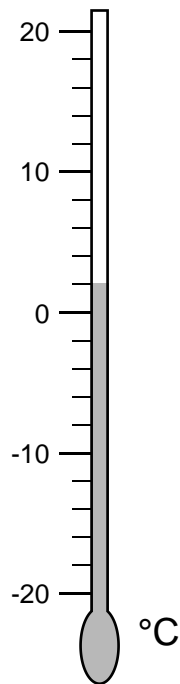
$$8 \times 300 = 2400$$

2.4 litres

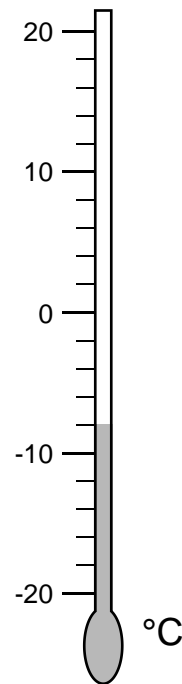
1 mark

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

22 Here are temperatures on a day in January in two different cities.



London, UK



Toronto, Canada

What is the temperature in each city?

Temperature in London = **2** °C

Temperature in Toronto = **-8** °C

2 marks

What is the difference between the two temperatures?

10 °C

1 mark

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

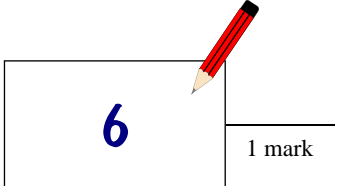
- 23** James thinks of a number.
He says:

*“If you add 4 to my number and
then halve the result, you will get 5.”*

What is the number James started with?

$$5 \times 2 = 10$$

$$10 - 4 = 6$$



6

1 mark



KS2 Practice Papers & Answers

Set 1

Mental Maths Test
No Calculators Allowed

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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.



Test Questions

5 seconds each

- 1 Write, in figures, the number two thousand and nineteen.
- 2 What is nine multiplied by nine?
- 3 How many millimetres are there in five centimetres?
- 4 Subtract ninety seven from one hundred.
- 5 Divide fifty four by nine.

10 seconds each

- 6 Add together two point four and three point seven.
- 7 What is two pounds fifty five, rounded to the nearest pound?
- 8 What temperature is ten degrees lower than five degrees Celsius?
- 9 Two bags of sweets cost seventy pence. How much do 3 bags cost?
- 10 How many sixes are there in three hundred and sixty?
- 11 What is one point five multiplied by three?
- 12 What is nine point nine, subtract nought point three?
- 13 Divide one point six by one hundred.
- 14 Ten times a number is four thousand. What is the number?
- 15 How many grams are there in one point four kilograms?

15 seconds each

- 16 The perimeter of a rectangle is fourteen centimetres. If the width is three centimetres, what is the length?
- 17 What number is half way between ninety and forty?
- 18 Which multiple of six lies between seventy five and eighty?
- 19 How many twenty pence pieces do you need to make nine pounds forty?
- 20 One chocolate costs thirty nine pence. How much do five of them cost?

Mental Maths Test Paper

Answers



Notes

| | | | |
|-----------------|----|----|--------|
| 5 seconds each | 1 | | |
| | 2 | | |
| | 3 | mm | 5cm |
| | 4 | | 97 |
| | 5 | | 54 |
| 10 seconds each | 6 | | 2.4 |
| | 7 | £ | £2.55 |
| | 8 | °C | 5°C |
| | 9 | £ | 70p |
| | 10 | | 360 |
| | 11 | | 1.5 |
| | 12 | | 9.9 |
| | 13 | | 1.6 |
| | 14 | | 4000 |
| | 15 | g | 1.4 kg |
| 15 seconds each | 16 | cm | 14cm |
| | 17 | | 40 90 |
| | 18 | | 75 80 |
| | 19 | | £9.40 |
| | 20 | £ | 39p |

Set 1 Mental Maths Test Answers

| | | | |
|-----------|--------------|-----------|---------------|
| 1 | 2019 | 11 | 4.5 |
| 2 | 81 | 12 | 9.6 |
| 3 | 50 mm | 13 | 0.016 |
| 4 | 3 | 14 | 400 |
| 5 | 6 | 15 | 1400 g |
| 6 | 6.1 | 16 | 4 cm |
| 7 | £3 | 17 | 65 |
| 8 | -5°C | 18 | 13 |
| 9 | £1.05 | 19 | 47 |
| 10 | 60 | 20 | £1.95 |



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