

Summer Progress check

# Year 4

## Mathematics

### Paper 2: reasoning and problem solving

First name						
Middle name						
Last name						
Date of birth	Day		Month		Year	
Teacher						

These assessments have been designed by White Rose Maths.  
For more information, please visit [www.whiterosemaths.com](http://www.whiterosemaths.com)



# Instructions

You **may not** use a calculator to answer any questions in this test.

## Questions and answers

You have **50 minutes** to complete this test.

Follow the instructions for each question.

Work as quickly and as carefully as you can.

If you need to do working out, you can use the space around the question.

**Some questions have a method box like this:**

Show your method

For these questions you may get a mark for showing your method.

If you cannot do one of the questions, **go on to the next one.**

You can come back to it later, if you have time.

If you finish before the end, **go back and check your work.**

## Marks

The number under each line at the side of the page tells you the maximum number of marks for each question.

**1**

Olivia is counting in 7s from 0 to 70


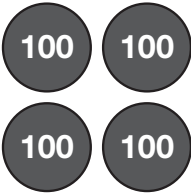
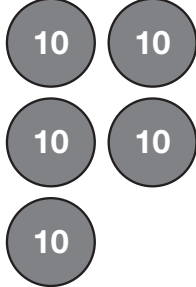
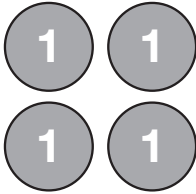
Circle the numbers she will say.

**17      1      7      28      57      63**

1 mark

**2**

Max makes a number on a place value grid.

Thousands	Hundreds	Tens	Ones
			

What number has Max made?

1 mark

Max adds some hundred counters.

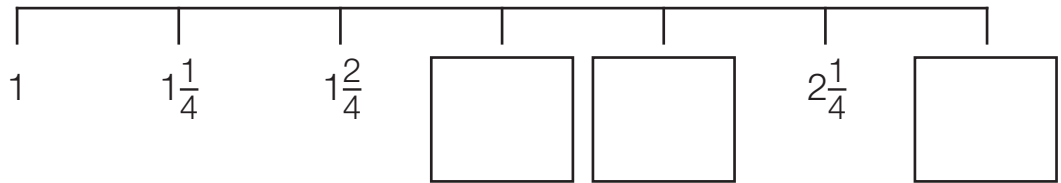
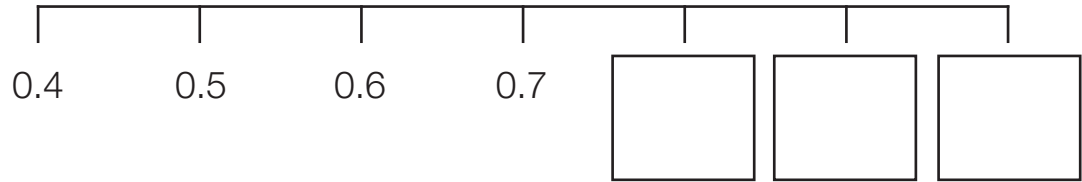
He has now made the number 2,954

How many hundred counters did Max add?

1 mark

3

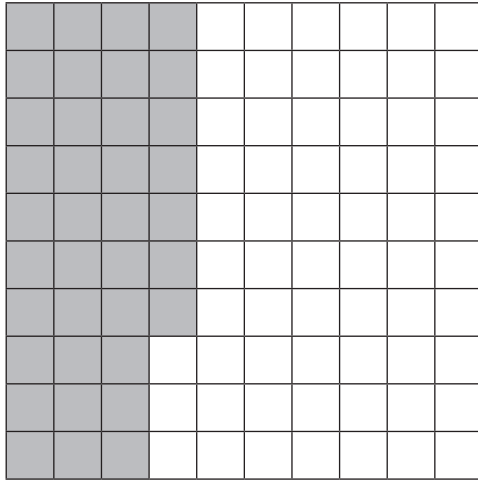
Complete the number lines.



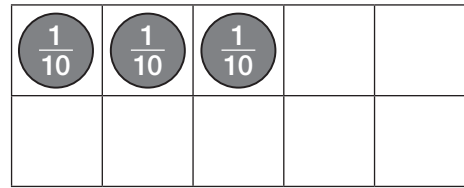
2 marks

4

Freya and Jack each represent a decimal.



**Jack's Decimal**



**Freya's Decimal**

What decimal has Jack represented?

1 mark

What decimal has Freya represented?

1 mark

5

Complete the sentences.

27 rounded to the nearest 10 is

2.7 rounded to the nearest whole number is

rounded to the nearest 10 is 270

3 marks

6

Aisha cycles 5 laps of a track.

The total distance Aisha cycles is 20 km.

Ben cycles 7 laps of the same track.

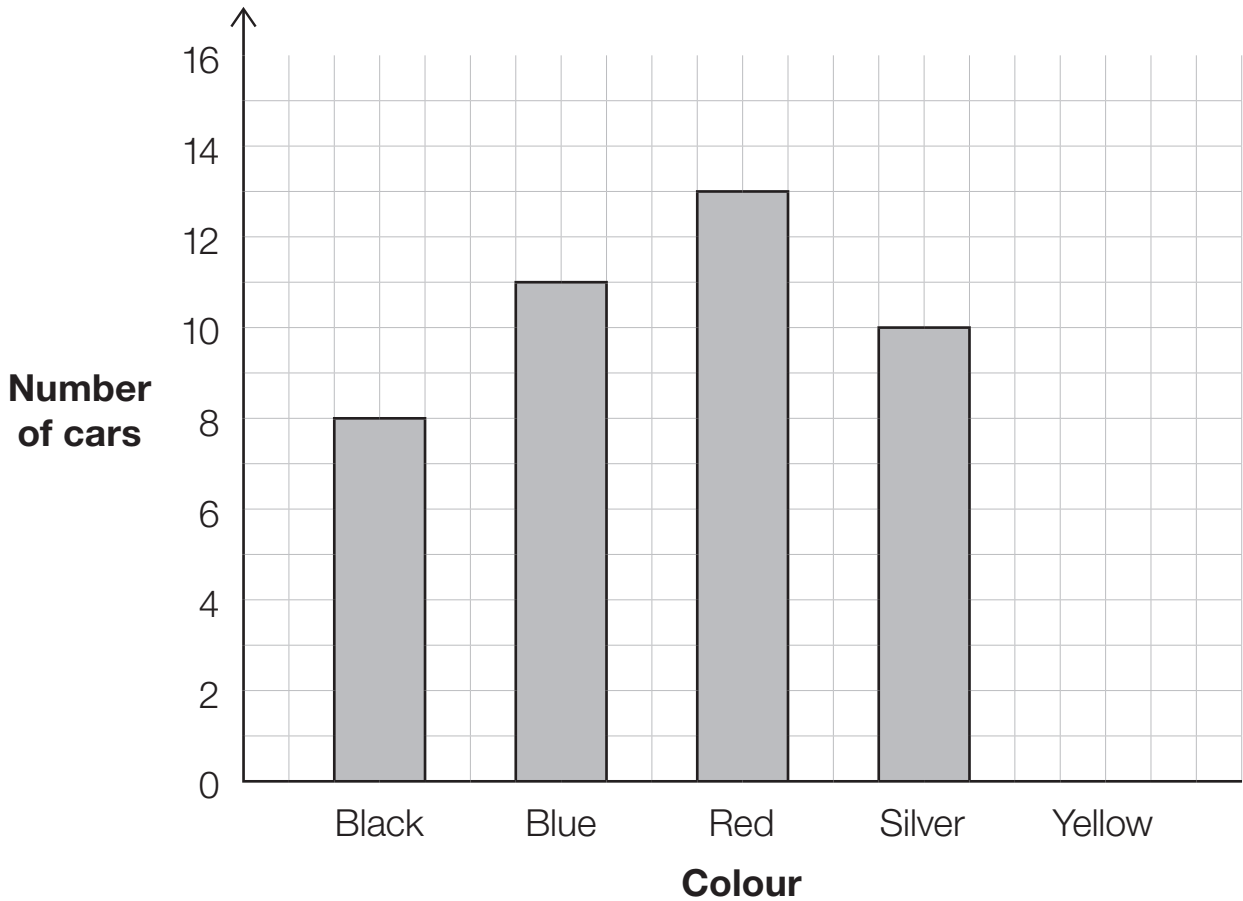
How far does Ben cycle in total?

Show  
your  
method


2 marks

7

Jasmine records the colour of cars that pass her school.  
She draws a bar chart to represent her results.



5 yellow cars pass the school.

Show this information on the bar chart.

1 mark

How many cars are black or red?

1 mark

$$\frac{1}{4} \text{ of } 32 \quad \bigcirc \quad \frac{1}{2} \text{ of } 32$$

$$\frac{2}{5} \text{ of } 30 \quad \bigcirc \quad \frac{4}{5} \text{ of } 30$$

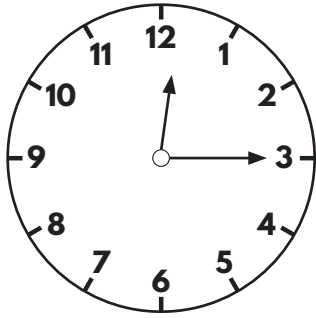
$$\frac{2}{5} \text{ of } 60 \quad \bigcirc \quad \frac{4}{5} \text{ of } 30$$

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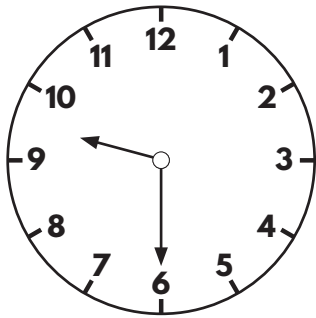
3 marks



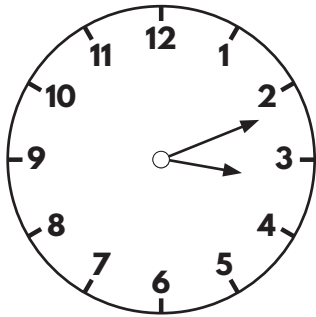
Match the analogue clocks to the correct digital time.



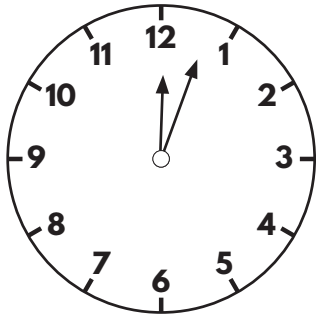
15:12



12:03



00:15



21:30

2 marks

Here are the prices of three items in a shop.



Video game £48.99



DVD £14.99



Headphones £27.50

Toby buys a video game and a DVD.

He pays with **two** £20 notes, **two** £10 notes and **one** £5 note.

How much change does Toby receive?

Show your method

Grid for showing the method to solve the problem. Includes a box for the final answer in pounds (£).

2 marks

Lyra wants to buy some headphones.

She saves £3 each week.

How many weeks does Lyra need to save for?

Show  
your  
method

weeks

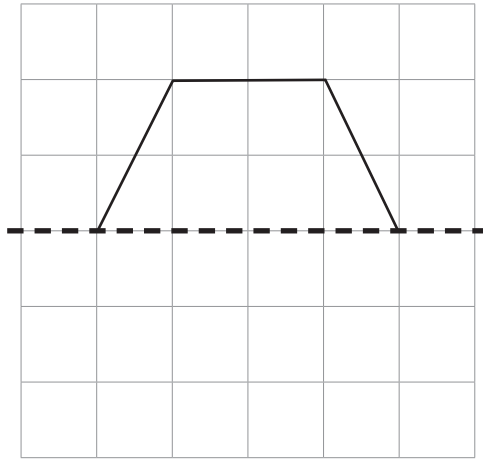
1 mark

11

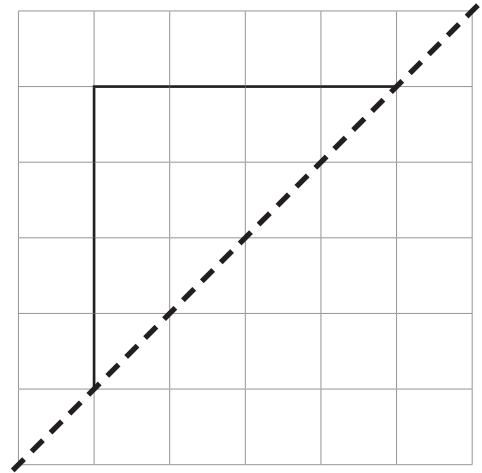
Here are part of two shapes.

Complete each shape so that it is symmetrical about the mirror line.

Use a ruler.



Shape A



Shape B

2 marks

Which of the completed shapes has the largest area?

Circle your answer.

**Shape A**

**Shape B**

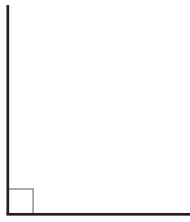
Explain your answer.

1 mark

12

Here are four angles.

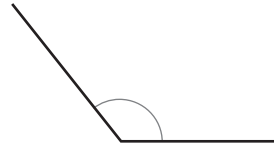
Use the letters to order the angles from smallest to largest.



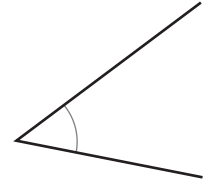
A



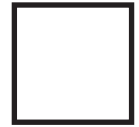
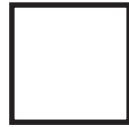
B



C



D



smallest

largest

1 mark

Use the words to complete the sentences.

acute

right

obtuse

Angle A is a \_\_\_\_\_ angle.

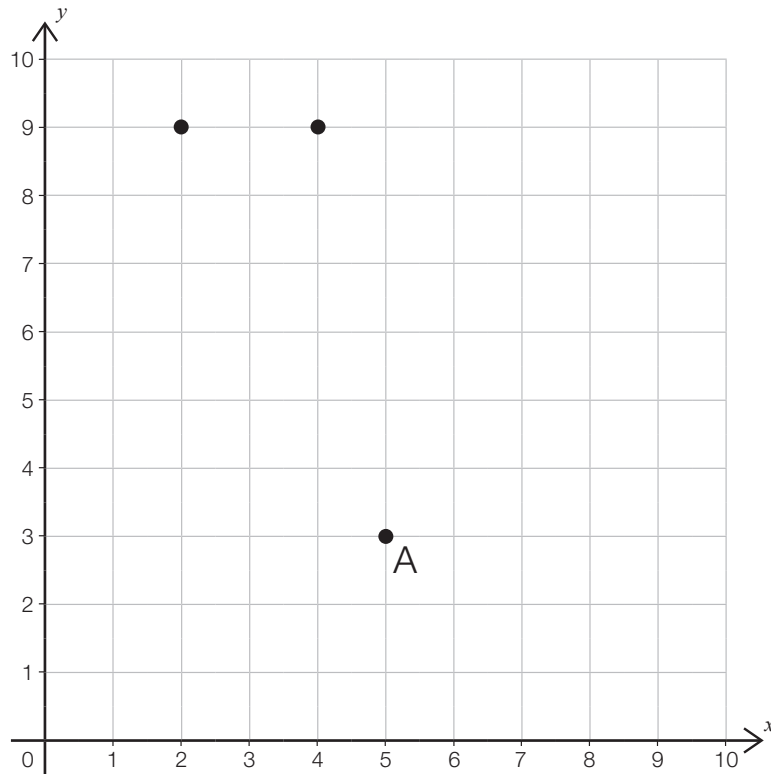
Angle B is an \_\_\_\_\_ angle.

Angle C is an \_\_\_\_\_ angle.

2 marks

13

James plots 3 points on a grid.



Write down the coordinates of point A.

(   ,   )

1 mark

James plots another point at (1 , 3)

Plot this point.

1 mark

James joins the points to make a quadrilateral.

Circle the name of the quadrilateral that he has drawn.

**Rectangle**

**Parallelogram**

**Trapezium**

1 mark

The shape is translated 2 squares right and 1 square up.

What are the new coordinates of point A?

(     ,     )

1 mark

14

A train has 8 carriages.

Each carriage has 56 seats.

How many seats are there on the train altogether?

Show  
your  
method

1 mark



15

4 tens and 2 ones divided by 10 is equal to...

Tick the **cards** that show the correct answer.

42 tenths

4 tens and 2 tenths

4 ones and 2 tenths

4.2

2 marks

Match the fractions to their decimal equivalents.

$$\frac{1}{4} + \frac{1}{4} + \frac{1}{4}$$

0.25

$$\frac{1}{6} + \frac{1}{6} + \frac{1}{6}$$

0.5

$$\frac{1}{12} + \frac{1}{12} + \frac{1}{12}$$

0.75

2 marks

17

Harry and Meghan both receive £20 pocket money each month.

Harry saves  $\frac{2}{5}$  of his money each month.

Meghan saves  $\frac{3}{4}$  of her money each month.

They save money for 5 months.

What is the **difference** in the amount Harry and Meghan have saved?

Show  
your  
method

A large grid for showing the method to solve the problem. A small box with the pound symbol (£) is located at the bottom right of the grid.

3 marks

END OF TEST

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