Lancashire Curriculum Tests

Year 5 – End of Summer Term

(Meeting end of year expectations)

Mathematics

Paper 2: reasoning

| First name | |
|-------------|--|
| Middle name | |
| Last name | |

Total marks



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

Questions and answers

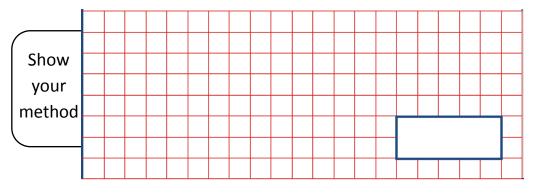
You have approximately **40 minutes** to complete this test.

Follow the instructions for each question.

Work as quickly and as carefully as you can.

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

Some question have a method box like this:



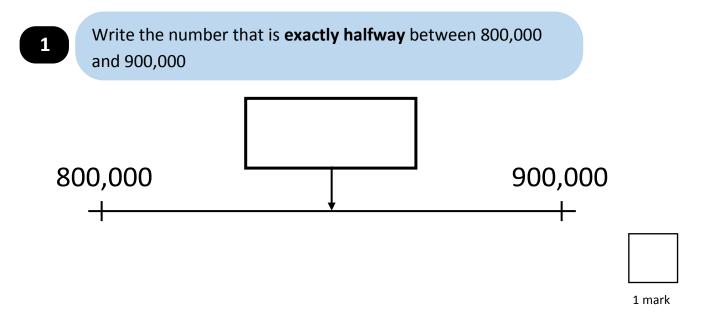
For these questions, you may get a mark for showing your method.

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

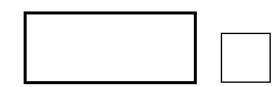
The number under each line at the side of the page tells you the maximum number of marks available for each question.



2 Here is a table of Ben's spelling test scores this term.

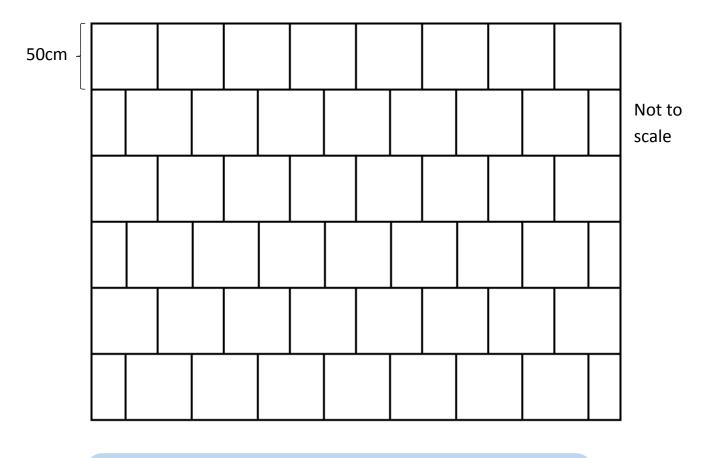
| Week | Score out of 15 |
|------|-----------------|
| 1 | 11 |
| 2 | 14 |
| 3 | 10 |
| 4 | 12 |
| 5 | 11 |
| 6 | 13 |
| 7 | 12 |
| 8 | 13 |
| 9 | 11 |

What is the Ben's median test score?



Lin's parents have laid this patio.

Each paving square is 50cm x 50cm.



What is the total **area** of the patio in **m**²?





$$\frac{2}{3}$$
 of 48 $\frac{5}{6}$ of 36

Explain how you know.

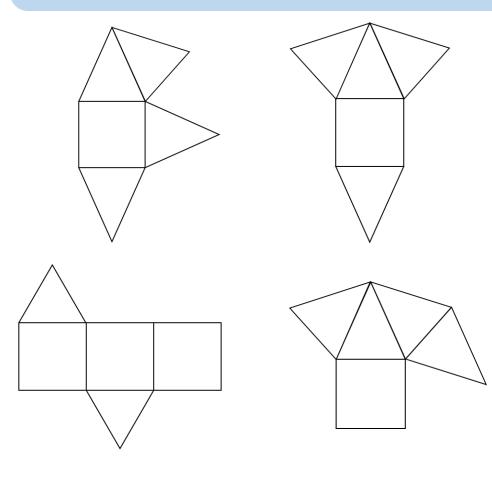
2 marks



What is the value of the **digit 4** in 548,288?



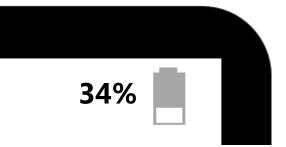
Which of these shapes is the net of a square based pyramid?



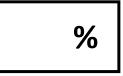
1 mark



Kim's mobile phone has this much power **left** in the battery:



What percentage of the battery has been used?





8

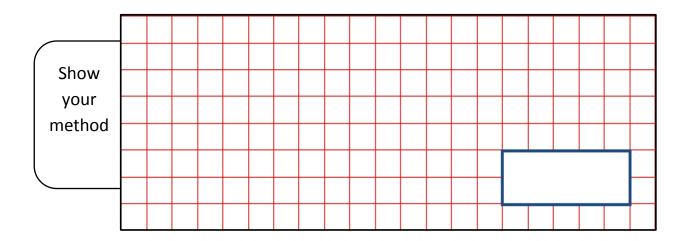
A shop is offering a 'meal deal' of a sandwich, a packet of crisps and a drink for ± 3

Sandwiches cost between £1.85 and £2.25

Packets of crisps cost between 55p and 65p

Drinks cost between 75p and £1.05

What is the **difference** between the **greatest and least amounts** of money that can be saved by buying the meal deal?

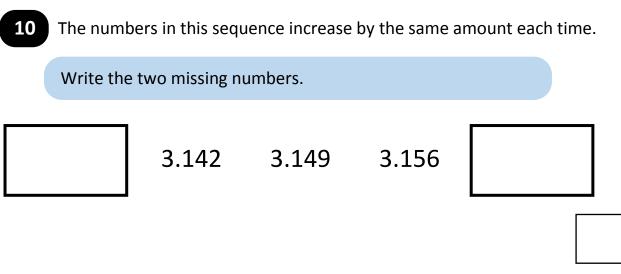


The shape on the grid is translated 4 right and 3 down.

Draw the shape in its new position.



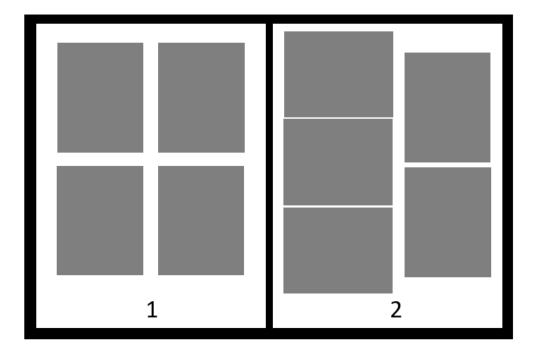
1 mark



1 mark

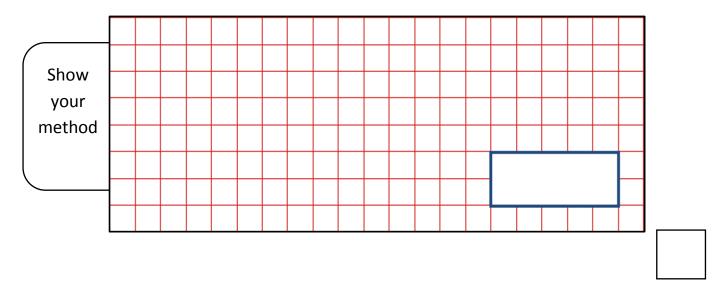
9

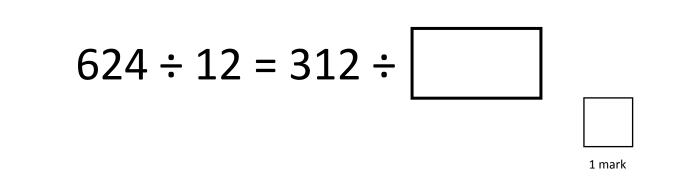
The photograph album below has **four** photographs on the left hand pages and **five** photographs on the right hand pages.



There are **12 pages** in the album.

How many **photographs** can the album hold in total?





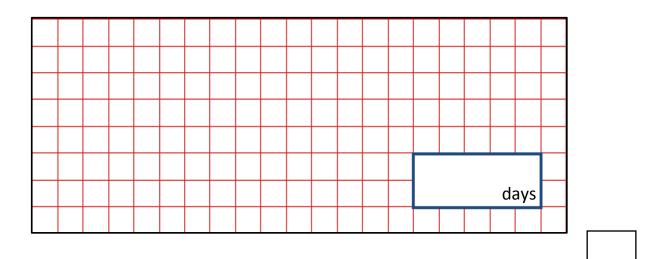
13

Leap years occur every **four years**.

2016 was the last leap year.

Sara celebrated her 11th birthday on 27th May 2017.

How many **days** had Sara been alive on her birthday?





This table shows a selection of the heaviest and longest vegetables ever grown in the United Kingdom.

| vegetable | mass (kg) | length (m) |
|-----------|-----------|------------|
| carrot | 56.4 | 5.84 |
| cucumber | 12.4 | 1.07 |
| parsnip | 7.88 | 6.28 |
| beetroot | 23.36 | 6.67 |

Facts from allotment-diary.co.uk

Which vegetable is the longest?

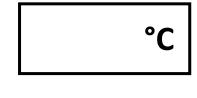


How much **heavier** is the carrot than the beetroot?

Image: state of the state of the

15 The temperature inside a fridge is 4°C. The temperature inside a freezer is -15°C.

What is the **difference** between these two temperatures?





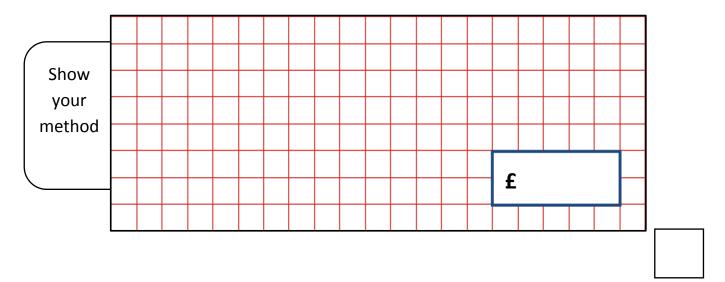
1 mark

16 There are 32 children in Class 5 who are all going on a school trip to the cinema.

The cost of the coach and cinema ticket is £8 each.

They pay the coach driver £160 for the coach.

How much money is the cinema being paid?



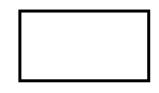


Ben puts a number into his calculator.

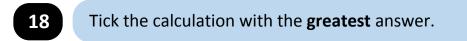
He multiples the number by 100 then halves this answer.

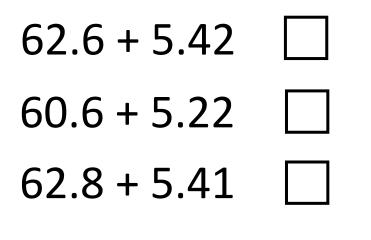
The result is 60.

What was Ben's original number?



1 mark

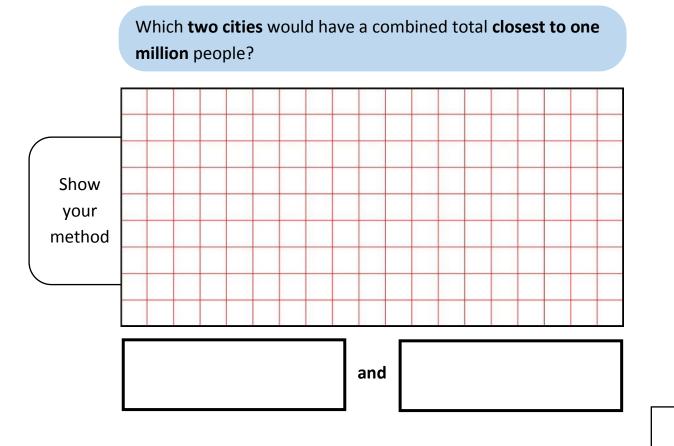


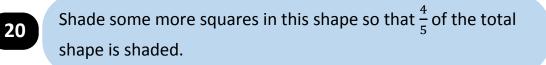


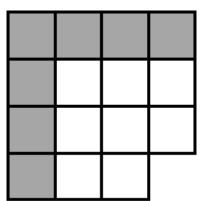
This table shows the population of five cities in England.

| city | population |
|------------|------------|
| Leeds | 774,100 |
| Liverpool | 478,600 |
| Manchester | 530,300 |
| Newcastle | 292,900 |
| Sheffield | 569,700 |

The population of which city is **just over three quarters of a million people**?





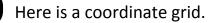


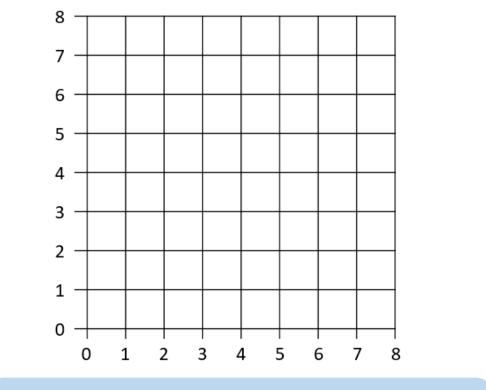
1 mark

21

Use the line below and a protractor to draw an angle of 125°.







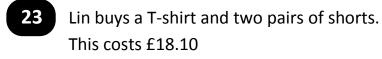
Put a cross (x) at each of the coordinates (3, 1) and (5, 6).

1 mark

These two coordinates are the vertices of an isosceles triangle.

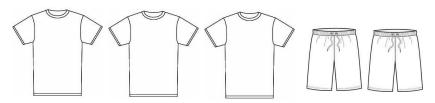
Put a cross (x) where the other vertex of the isosceles triangle could be.



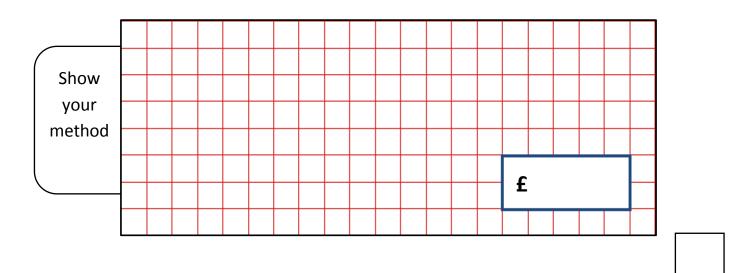




Kim buys three T-shirts and two pairs of shorts. This costs £35.90



How much does one T-shirt cost?

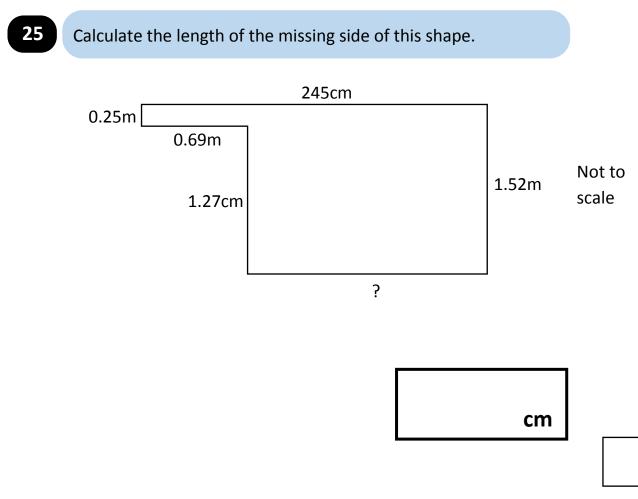


Match the numbers to the property labels.

24

| 91 | prime number |
|-----|---------------|
| 121 | square number |
| 31 | multiple of 7 |

1 mark



END OF TEST