Ma

KEY STAGE

LEVEL

Mathematics tests

Paper 1

Calculator **not** allowed

First name				
Middle name				
Last name				
Date of birth	Day	Month	Year	
School name				
DfE number				

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Instructions

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

Work as quickly and as carefully as you can.

You have **30 minutes** for this test.

N

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

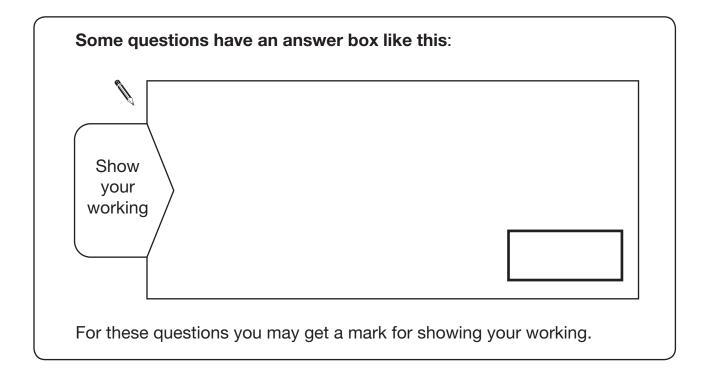
You can come back to it later, if you have time.

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

Follow the instructions for each question carefully.

This shows where you need to put the answer.

If you need to do working out, you can use any space on a page.



A box of crisps contains three different flavours.

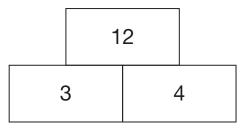


A quarter of the packets are prawn cocktail flavour.

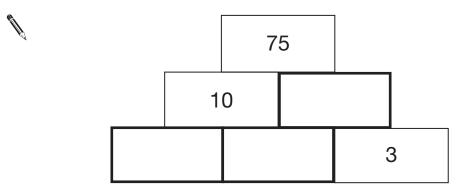
The probability of picking cheese and onion flavour is 30%

What is the probability of picking salt and vinegar flavour?





Write the missing numbers in the tower below to make it correct.



2 marks

The following quadrilaterals all have a perimeter of 36cm

Here is a table to show the length of each side.

Complete the table.

One quadrilateral is done for you.

	Side lengths								
square	9cm	9cm	9cm	9cm					
rectangle	3cm								
rhombus	9cm								
kite	10cm								

2 marks

3

Here is an equation.

m - 2n = 10

When n = 20 what is the value of m?

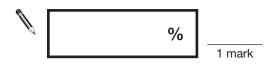


When m = 20 what is the value of n?



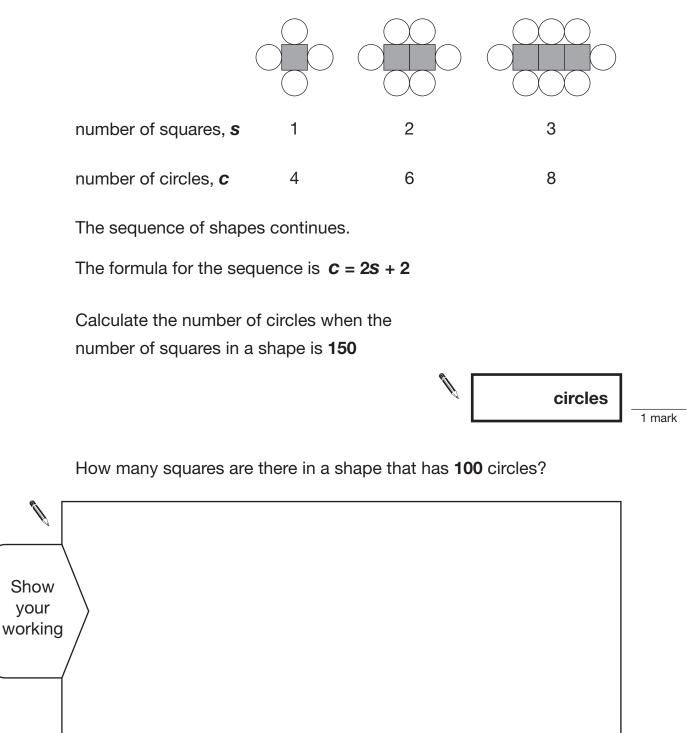


What percentage of 20 is 19?



Here is a sequence of shapes.

Each time a square is added to a shape, two more circles are added.



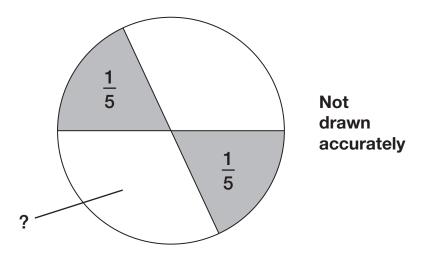
squares

2 marks

6

In this circle, each shaded part is $\frac{1}{5}$ of the area of the circle.

The two white parts have equal areas.



What fraction of the circle is one of the white areas?



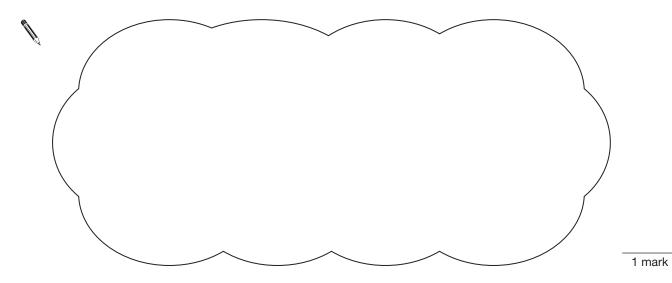
7

Megan says,

'If two rectangles have the same perimeter, they must have the same area.'

Is she correct? Circle Yes or No. Yes / No

Explain how you know.



A shop makes **100** sandwiches.

All the sandwiches are either cheese or tuna.

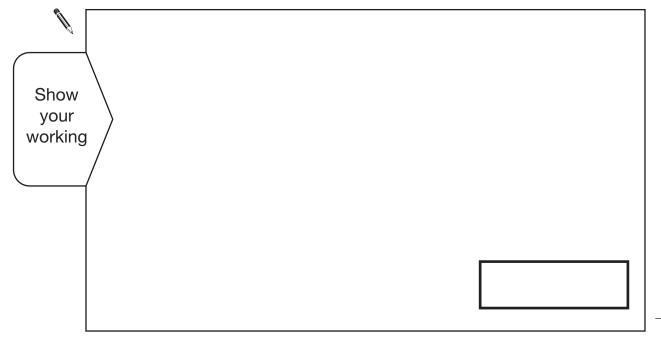
Some of the sandwiches also have salad with the cheese or tuna.

30 sandwiches have cheese with salad.

15 sandwiches have tuna without salad.

75 sandwiches have salad.

How many sandwiches have cheese without salad?



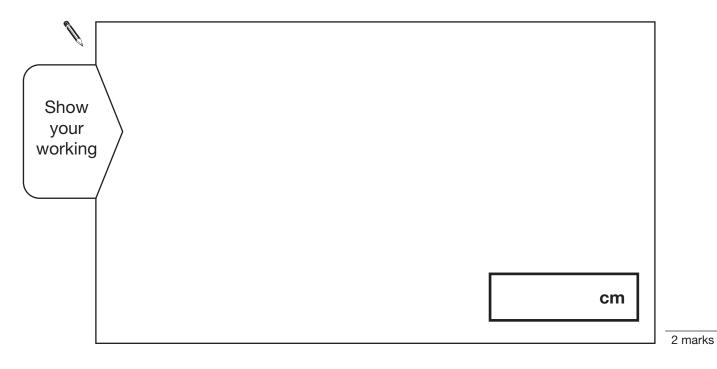
2 marks

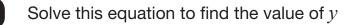
This photograph shows three Russian dolls.



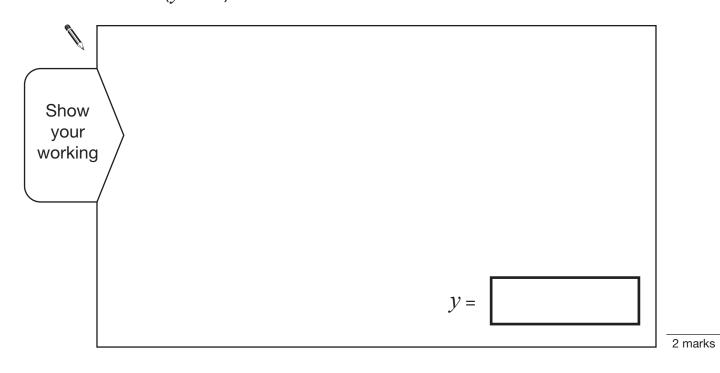
The real-life height of the largest Russian doll is 13.5cm

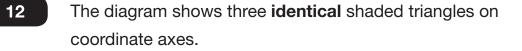
What is the real-life height of the **smallest** Russian doll?

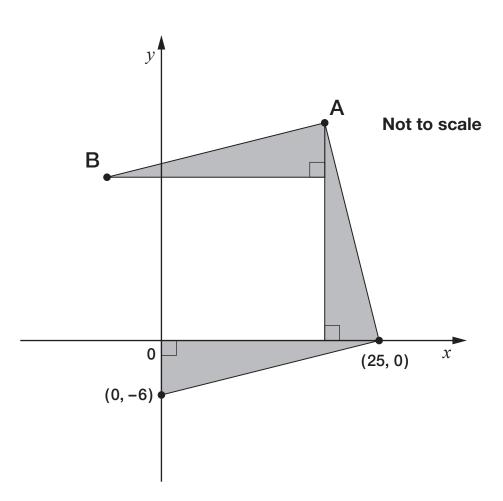




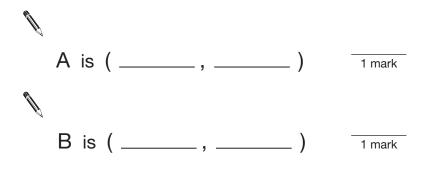
8 (*y* + 12) = 100







What are the coordinates of **A** and **B**?

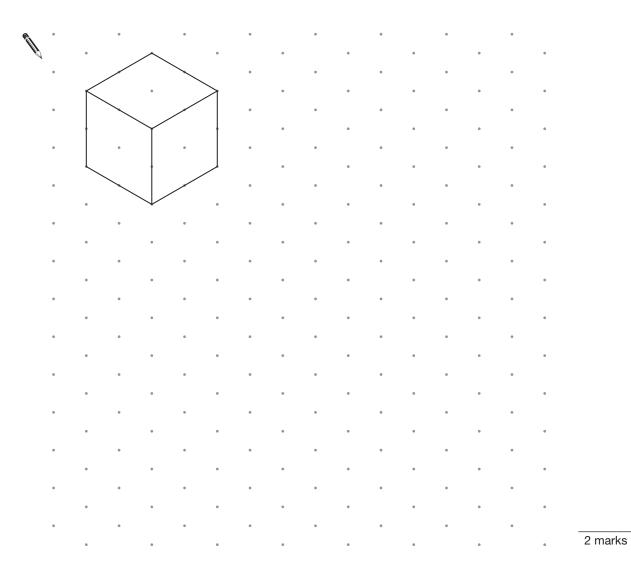


15

Here is a drawing of a cube on an isometric grid.

Draw a cuboid that has:

- the **same** volume
- half the height.



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