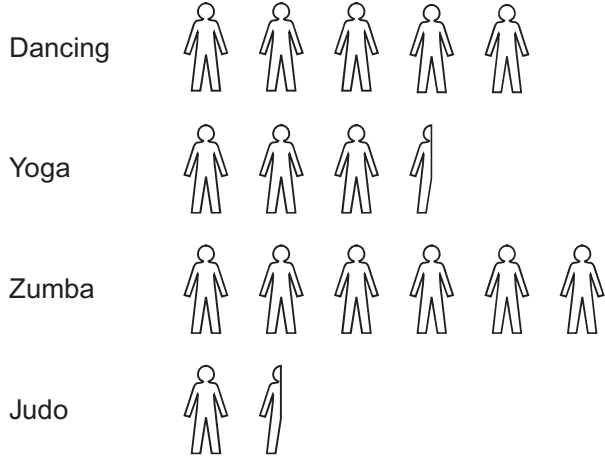



Answer **all** questions in the spaces provided.

1 The pictogram shows what people did when they went to a gym.



Key  represents people

1 (a) 20 people did Dancing.

Complete the key for the pictogram.

(1 mark)

1 (b) Altogether, how many people went to the gym?

.....
.....

Answer (3 marks)

Turn over ►



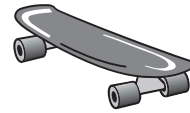
2 Here are three items in a sports shop.



Football
£12



Dartboard
£9.99



Skateboard

2 (a) Matt bought a football and two dartboards.

Work out the total cost.

.....
.....

Answer £ (2 marks)

2 (b) Sarah bought a skateboard and a football.
She paid with a £50 note.

Her change was £14.50

Work out the cost of the skateboard.

.....
.....
.....
.....

Answer £ (3 marks)



2 (c) Sarah only has the £14.50 change.

She sees this offer.



Can she afford to buy two pizzas?
You **must** show your working.

.....

.....

.....

(2 marks)

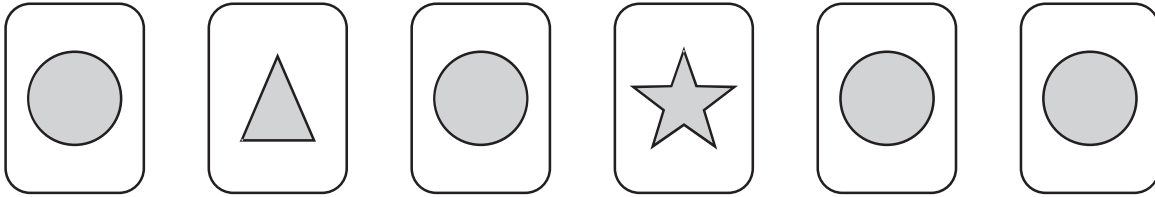
Turn over for the next question

7

Turn over ►



3 Here are some cards.



Here is a list of words that describe chance.

impossible

unlikely

likely

certain

A card is picked at random.

Complete each sentence using **one** word from the list.

It is that the card will have a circle on it.

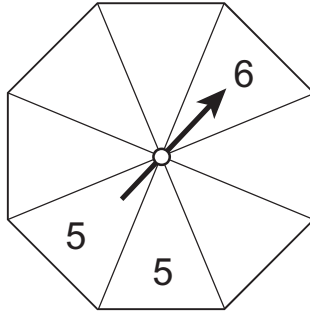
It is that the card will have a number on it.

It is that the card will have a triangle on it.

(3 marks)



4 Here is a fair spinner with equal-sized sections.



Fill in the missing numbers on the spinner so that
the arrow is equally likely to land on 4 or 5
and the arrow is more likely to land on 3 than 6
and the total of all sections is 32.

(3 marks)

Turn over for the next question

6

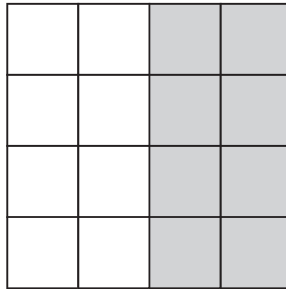
Turn over ►



5 Use your calculator to work out 13×24^2

Answer (1 mark)

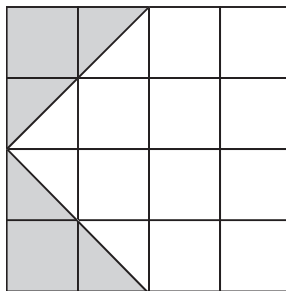
6 (a) Here is a square grid.



What percentage of the grid is shaded?

Answer % (1 mark)

6 (b) Here is another square grid.



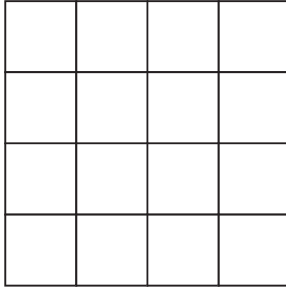
What fraction of the grid is shaded?
Give your answer in its simplest form.

.....

Answer (2 marks)



6 (c) Shade $\frac{1}{8}$ of this square grid.



(1 mark)

Turn over for the next question

5

Turn over ►



7 Here is a sign in a car park.

Car Park

95p per hour

Pay machine takes these coins

£2 £1 50p 20p 10p 5p

7 (a) Lucy paid £2.85 to park.
How many hours did she pay for?

.....

Answer hours (2 marks)

7 (b) Lucy paid exactly £2.85
She used **six** coins.
She did **not** use any £1 coins.
Show **three** different ways she could have paid.

.....
.....
.....

Answer 1,,,,,

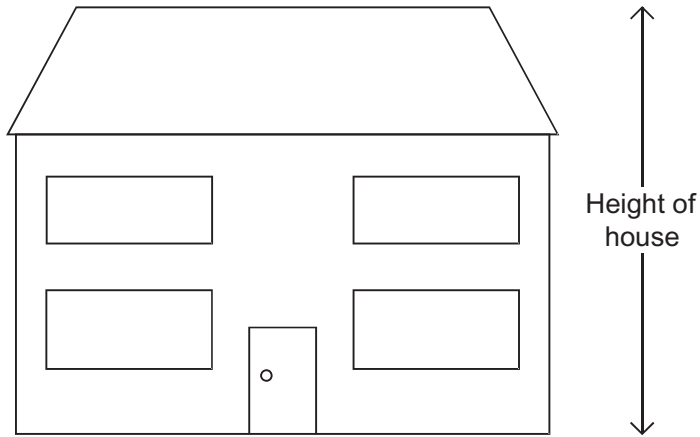
Answer 2,,,,,

Answer 3,,,,,

(3 marks)



8 Here is a scale drawing of the front of a house.



The actual height of the door is 2 metres.

Work out the actual height of the house.

.....
.....
.....

Answer metres (3 marks)

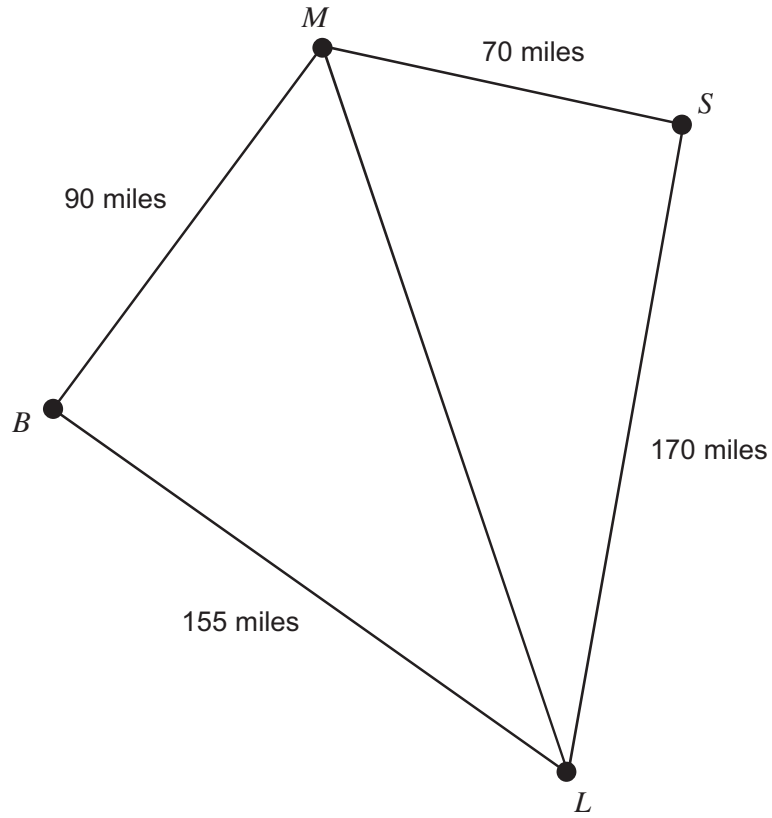
Turn over for the next question

8

Turn over ►



9 The diagram shows distances between some towns.



Not drawn accurately

9 (a) A van travels from *M* to *S* and then from *S* to *L*.

Work out the total distance the van travels.

.....

Answer miles (1 mark)

9 (b) The **direct** distance from *M* to *L* is three times the distance from *M* to *S*.

How much further does the van travel by **not** going directly from *M* to *L*?

.....

.....

.....

Answer miles (3 marks)



9 (c) Chris is going from *M* to *B*.
He travels 80% of the distance when his car breaks down.
A breakdown truck is halfway between *M* and *B*.

How far does the truck have to travel to reach Chris?

.....
.....
.....

Answer miles (4 marks)

10 Use your calculator to work out $\sqrt{2201}$

10 (a) Write down your full calculator display.

Answer (1 mark)

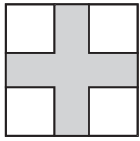
10 (b) Give your answer to the nearest 10.

Answer (1 mark)

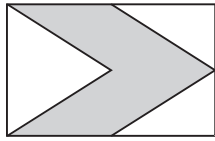
Turn over for the next question



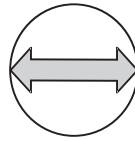
11 Here are four diagrams.



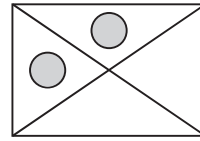
A



B



C



D

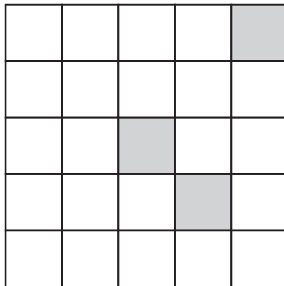
11 (a) Which **two** diagrams have more than one line of symmetry?

Answer and (2 marks)

11 (b) Which diagram has rotational symmetry of order 2?

Answer (1 mark)

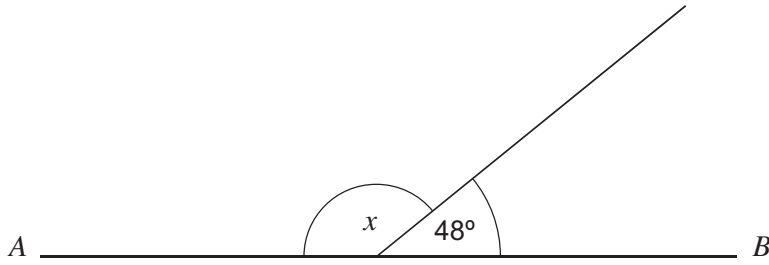
11 (c) Here is a square grid.



Shade **two** more squares to make this grid have rotational symmetry of order 2. (1 mark)



12 (a) AB is a straight line.



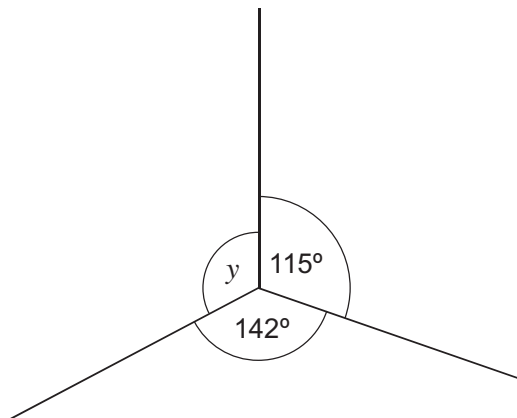
Not drawn
accurately

Work out the value of x .

.....

Answer degrees (1 mark)

12 (b) The diagram shows three angles at a point.



Not drawn
accurately

Work out the value of y .

.....
.....

Answer degrees (2 marks)

7

Turn over ►



13 Circle the most suitable measurement for each of the following.

The amount an apple weighs.

1 gram

10 grams

100 grams

The amount of water in a full kettle.

2 litres

20 litres

200 litres

The height of a bus.

5 metres

50 metres

500 metres

(3 marks)

14 (a) Solve $3w = 18$

.....

$w =$ (1 mark)

14 (b) Solve $\frac{x}{4} = 15$

.....

$x =$ (1 mark)

14 (c) Solve $2y - 5 = 12$

.....

.....

$y =$ (2 marks)

