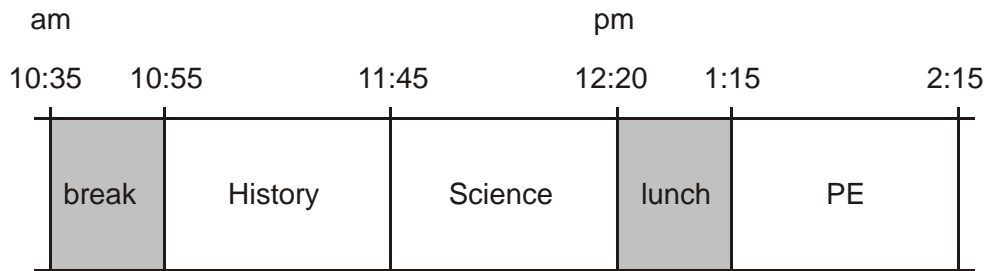


MEASURES – Level 4 questions

1. Here is part of the timetable for Class 6 on a Monday.



Look at the timetable.

How long is it from the **end** of break to the **start** of lunch?




1 mark

Nisha leaves the Science lesson after 25 minutes.

Then she goes to the dentist.

What time does she leave the Science lesson?

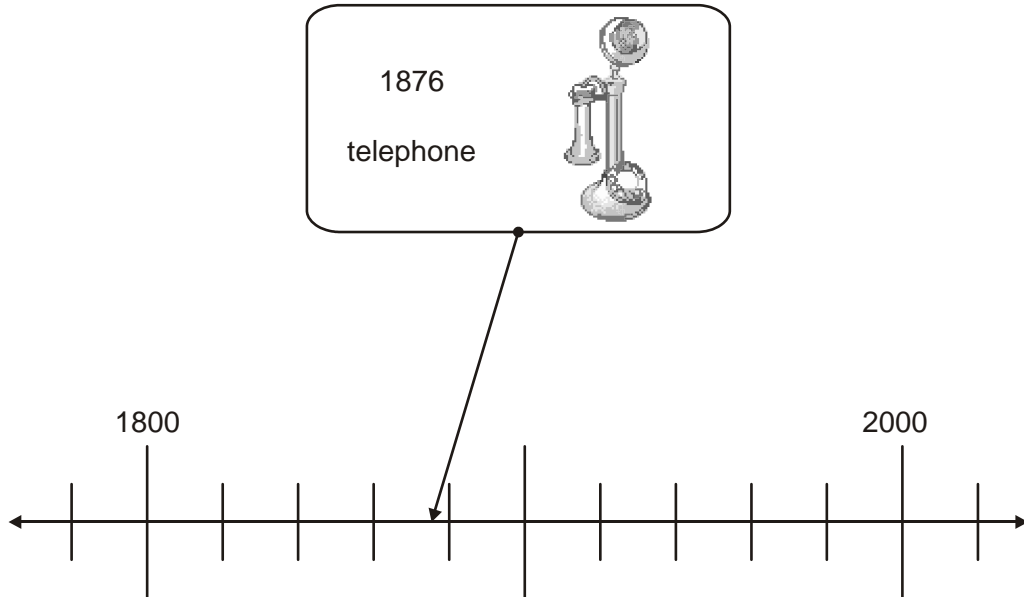


1 mark

2. Here is part of a time line.

Draw a line from each invention to the correct point on the time line.

One has been done for you.

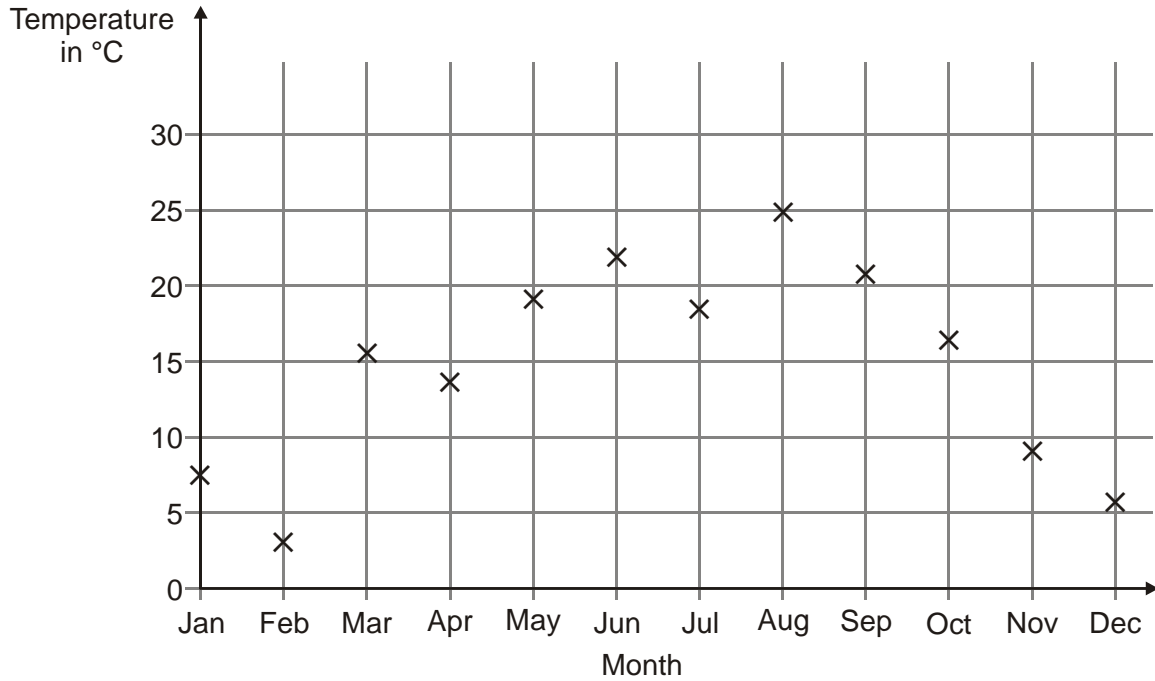


1810
tin can

1945
computer

2 marks

3. Abbie takes the temperature outside at midday on the first day of each month. The graph shows her results from January to December.



How many months on the graph show a temperature between **10°C** and **20°C**?

1 mark

Find the difference in temperature shown on the graph between **July** and **August**.

1 mark

4.



A film starts at 6:45pm.

It lasts 2 hours and 35 minutes.

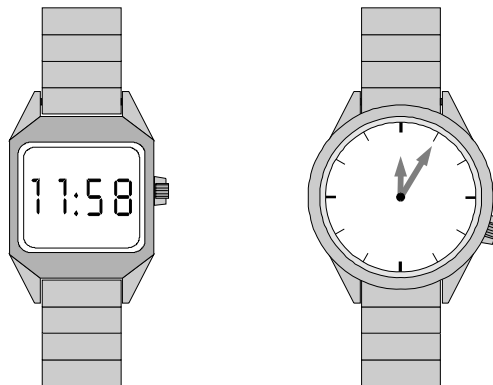
What time will the film finish?

A small pencil icon is positioned at the top left corner of a rectangular box. Inside the box, the letters "pm" are written in a simple, lowercase font.


1 mark

5. One of these watches is **3 minutes fast**.

The other watch is **4 minutes slow**.



What is the correct time?



1 mark

6. Here is the calendar for August 1998.


August 1998

| Sun | Mon | Tues | Wed | Thur | Fri | Sat |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | | | | | | 1 |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 30 | 31 | | | | | |

Simon's birthday is on **August 20th**.

In 1998 he had a party on the **Sunday after** his birthday.

What was the **date** of his party?



1 mark

Tina's birthday is on **September 9th**.

On what **day of the week** was her birthday in 1998?



1 mark

7. These are the start and finish times on a video cassette recorder.

START 14:45

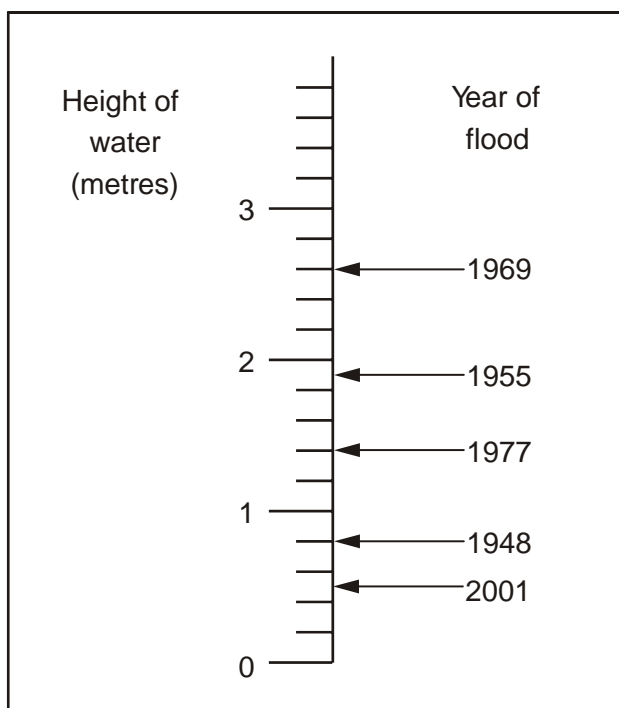
FINISH 17:25

For how long was the video recording?

| | |
|--------------|----------------|
| hours | minutes |
|--------------|----------------|

1 mark

8. This scale shows the dates of floods and the height of the water in the floods.



How high was the water in the 1955 flood?



1 mark

How much higher was the water in the 1969 flood than in the 1948 flood?

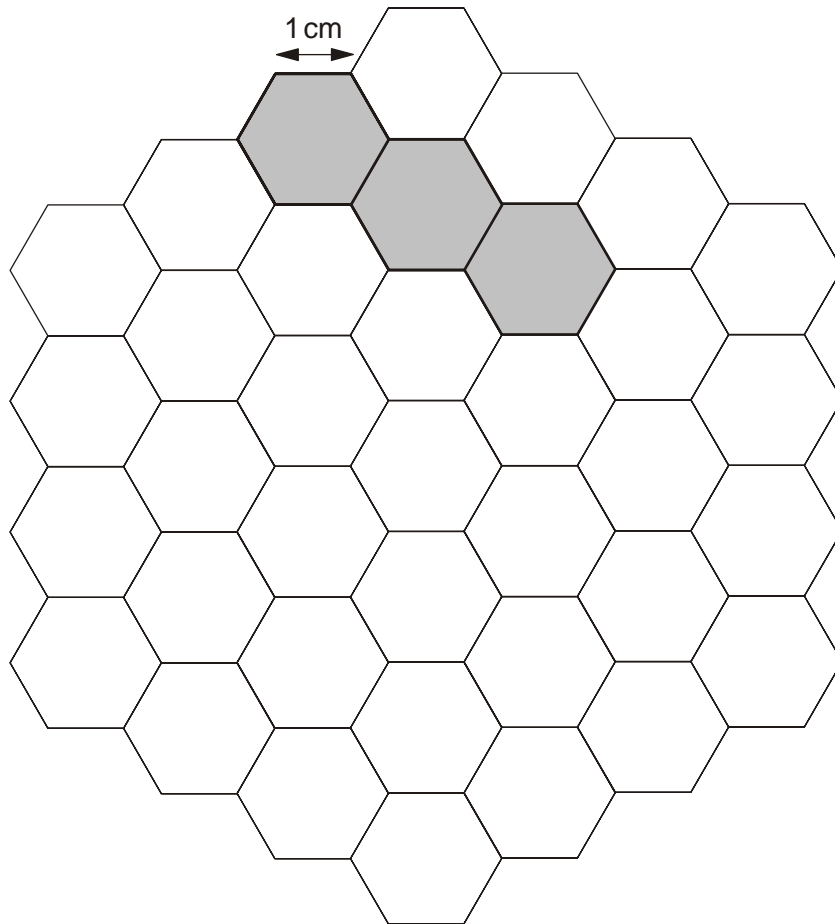


1 mark

9. Here is a grid of regular hexagons.

The shaded shape has an area of 3 hexagons and a perimeter of 14cm.

Draw another shape on the grid which has an **area** of 4 hexagons and a **perimeter** of 14cm.

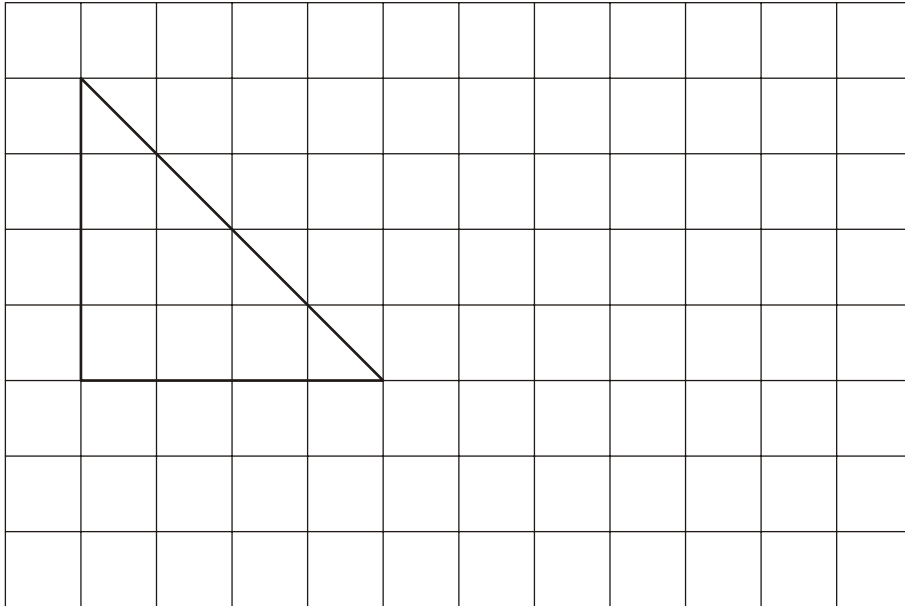


1 mark

10. Here is a triangle drawn on a square grid.

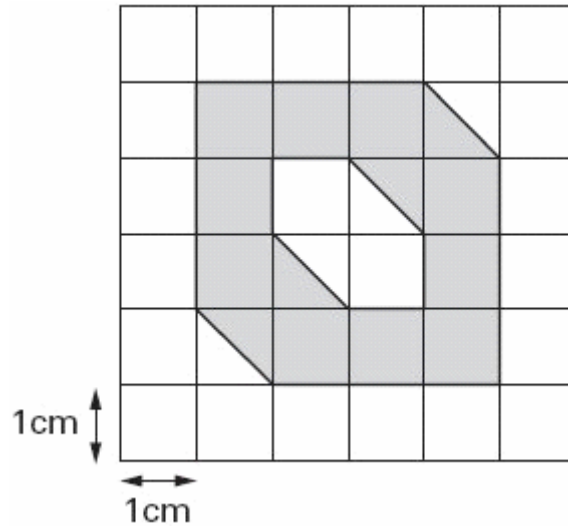
Draw a **rectangle** on the grid with the same area as the triangle.

Use a ruler.




1 mark

11. Here is a 1cm square grid.
Some of the grid is shaded.



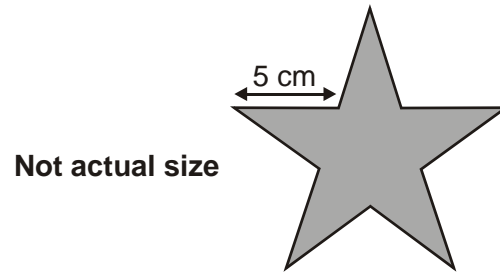
What is the **area** that is shaded?



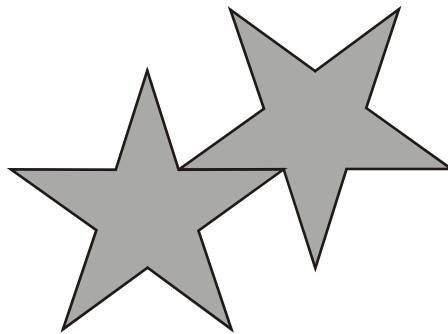
1 mark

12. Millie has some star-shaped tiles.

Each edge of a tile is 5 centimetres long.



She puts two tiles together to make this shape.



Work out the perimeter of Millie's shape.

cm

1 mark

13. Write these lengths in order, starting with the shortest.

$\frac{1}{2}$ m

3.5cm

25mm

20cm

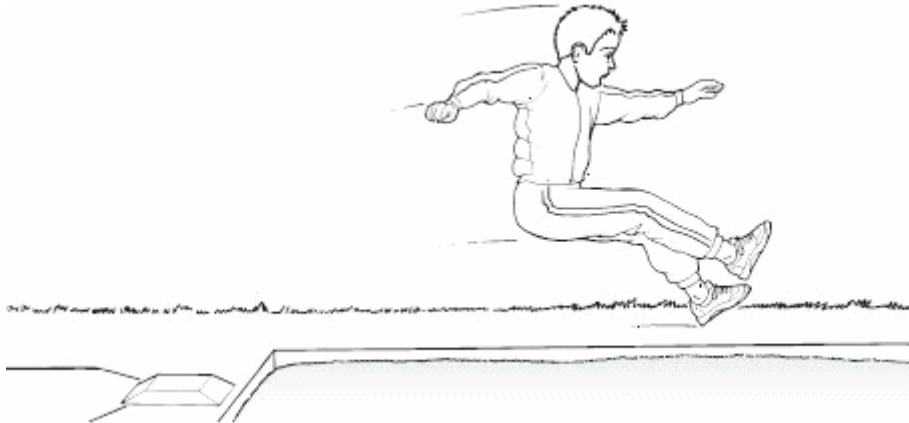


shortest


1 mark

14. Max jumped **2.25 metres** on his **second** try at the long jump.

This was **75 centimetres** longer than on his **first** try.

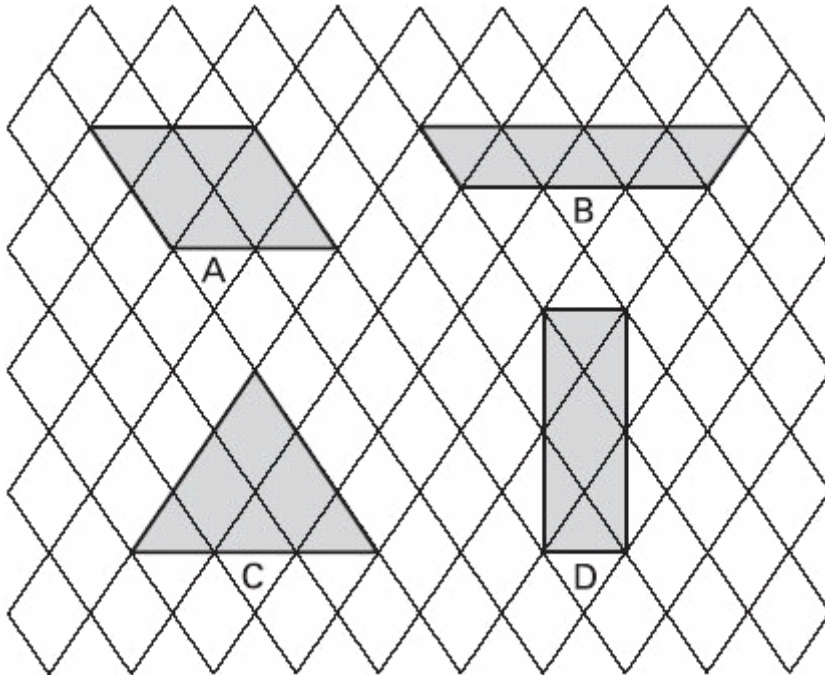


How far **in metres** did he jump on his **first** try?


 m

1 mark

15. Here are some shapes drawn on a grid.



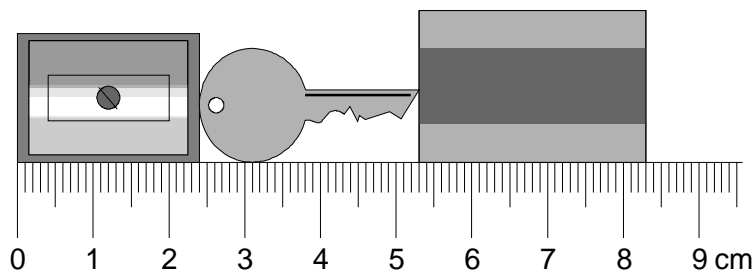
Write the letters of the **two** shapes that are equal in area.

 and

1 mark


16. Here are a pencil sharpener, a key and a rubber.

Actual size



What is the length of **all three things** together?


Give your answer in **millimetres**.



1 mark

What is the length of the **key**?

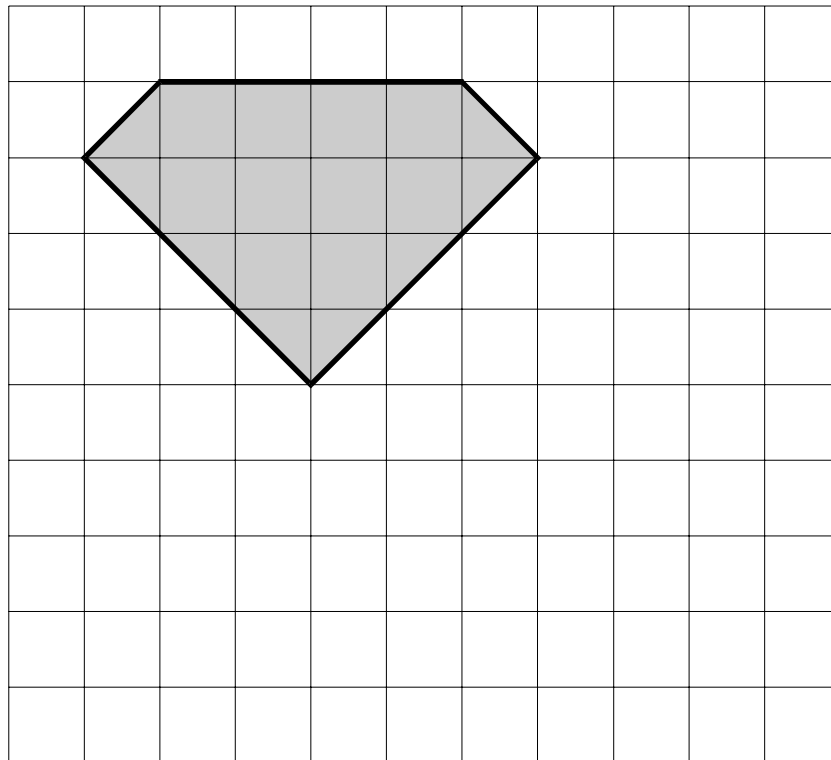
Give your answer in **millimetres**.



1 mark

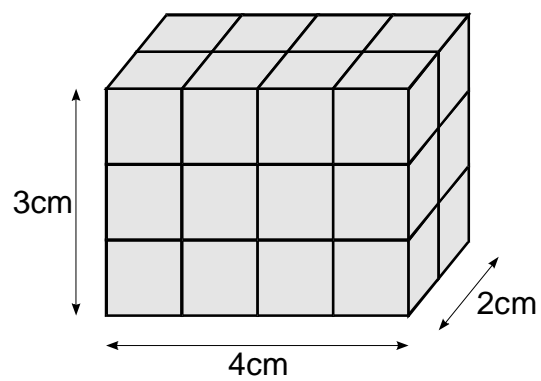
17. On the grid, draw a **rectangle** which has the **same area** as this shaded pentagon.

Use a ruler.



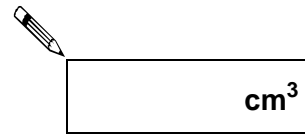
1 mark

18. This cuboid is made from centimetre cubes.



It is 4 centimetres by 3 centimetres by 2 centimetres.

What is the **volume** of the cuboid?




1 mark

Another cuboid is made from centimere cubes.

It has a volume of **30 cubic centimetres**.

What could the **length**, **height** and **width** be?

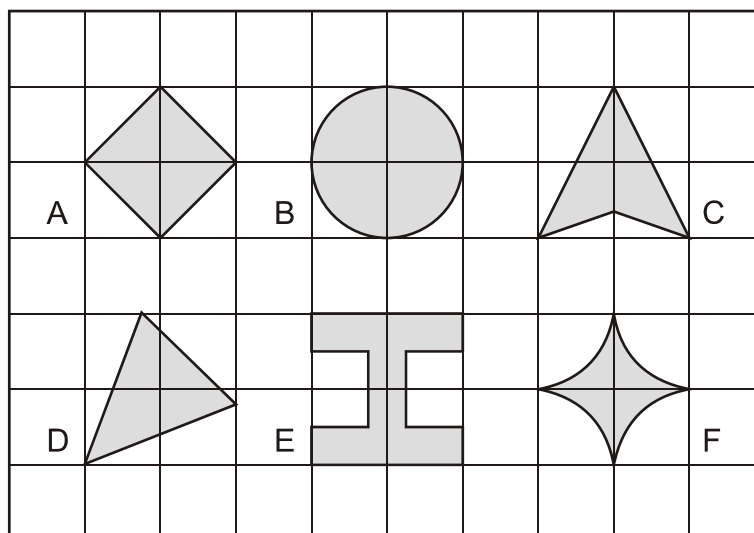
 length

height

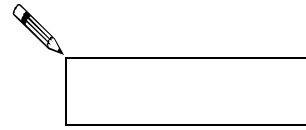
width

1 mark

19. Here are some shapes on a grid.

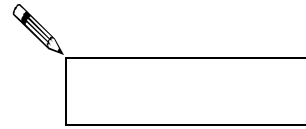


Which shape has the **longest perimeter**?



1 mark

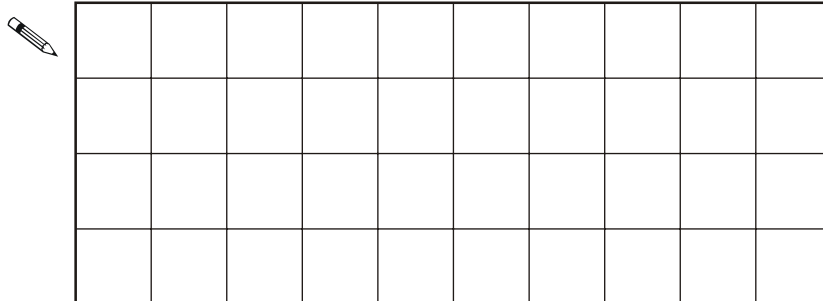
Which shape has the **largest area**?



1 mark

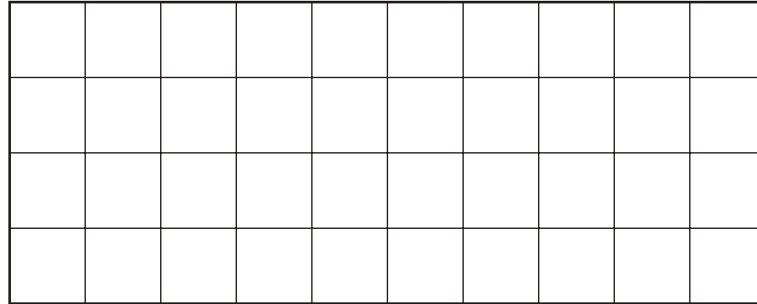
20. Here is a centimetre square grid.

On the grid draw a **shape** which has an **area of 10** square centimetres.



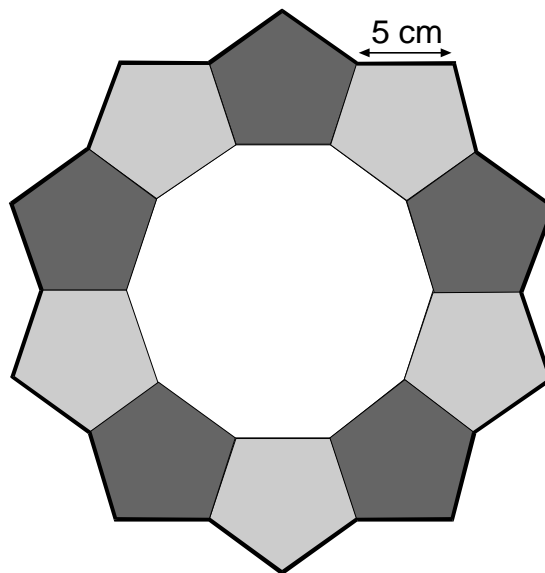
1 mark

On the grid below draw a **rectangle** which has a **perimeter** of **10** centimetres.



1 mark

21. This ring is made of **regular pentagons**, with sides of **5** centimetres.



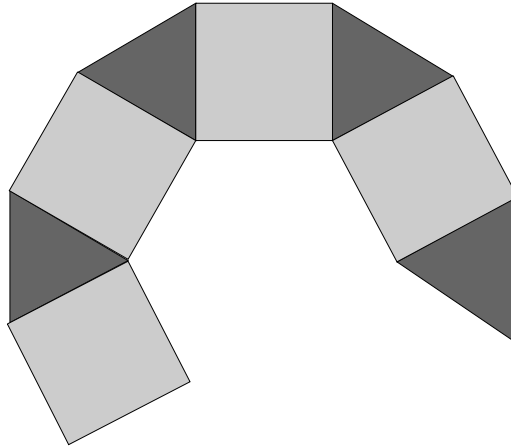
What is the **length** of the **outer edge** of the ring?



1 mark

Here is part of a new ring.

It is made of **squares** and **triangles**.



The pattern is continued to complete the ring.

What is the **total** number of **squares** used in the complete ring?

A pencil icon pointing to a rectangular box for an answer.

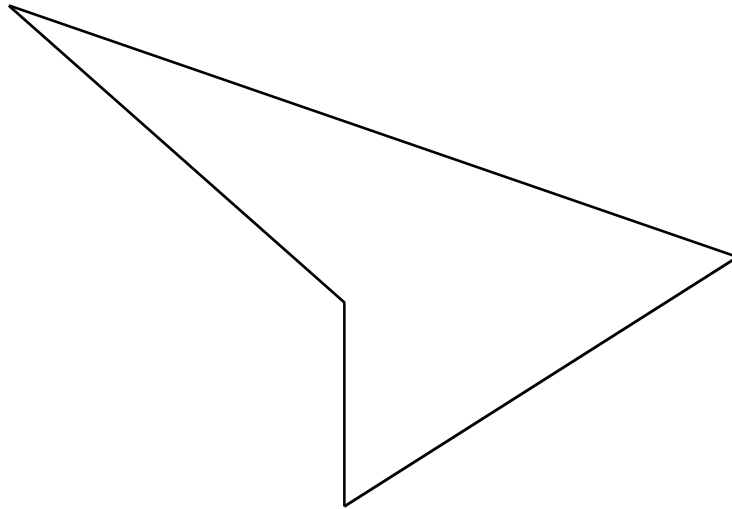
1 mark

22. Write the correct whole number in the box.

5 miles is approximately kilometres.


1 mark

23.



Measure accurately the **longest side** of this shape.


Give your answer in millimetres.



1 mark

Measure accurately the **smallest angle** in the shape.

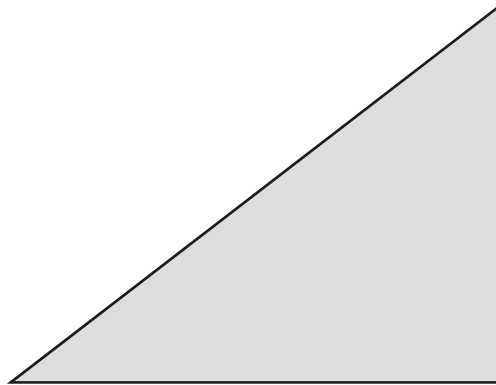
Use a protractor (angle measurer).




1 mark

24. Measure **accurately** the **longest side** of this triangle.

Give your answer in **millimetres**.

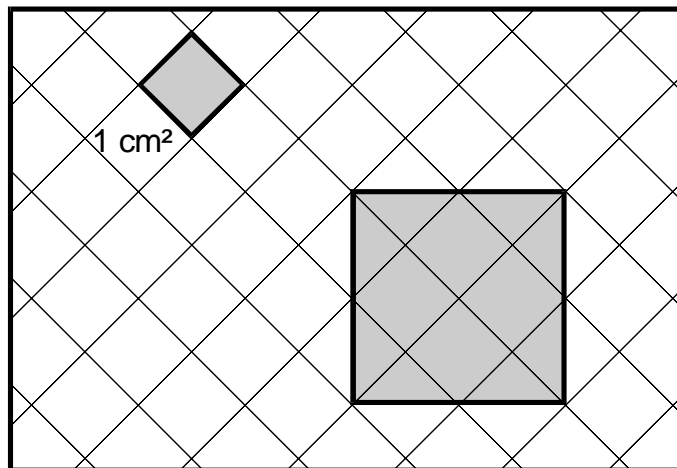





1 mark

25. The **area** of the **small** shaded square is **1 square centimetre**.

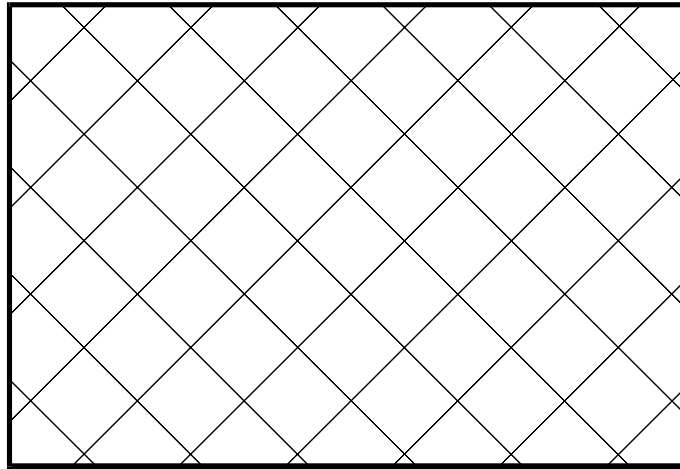
What is the **area** of the **larger** shaded square?





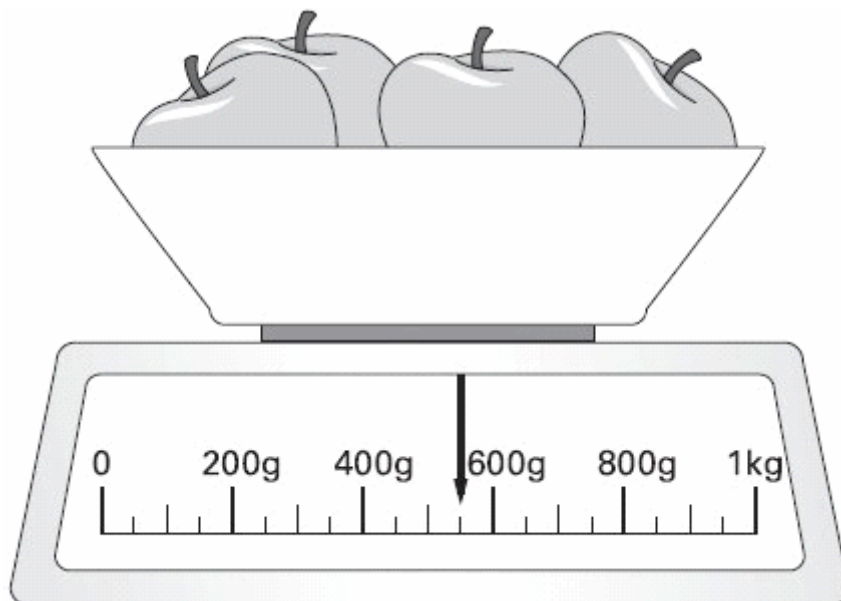
1 mark

On the grid below, draw a **square** with an **area of 2 cm²**.

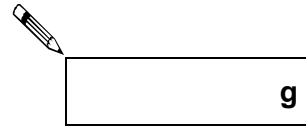


1 mark

26. Here are some apples.



What is the total weight of these apples?

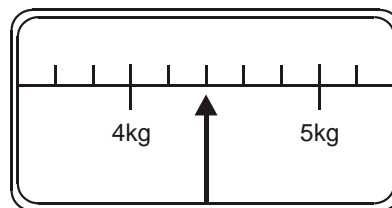


1 mark

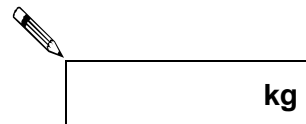
27. This scale shows the weight of Fred's cat.



Fred's cat



What is the weight of Fred's cat?

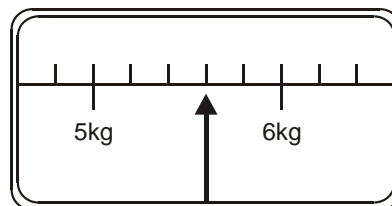


1 mark

This scale shows the weight of Fred's dog



Fred's dog



How much **more** does Fred's dog weigh than his cat?

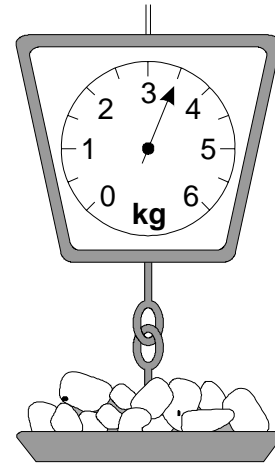


1 mark

28. This table shows the weight of some fruits and vegetables.

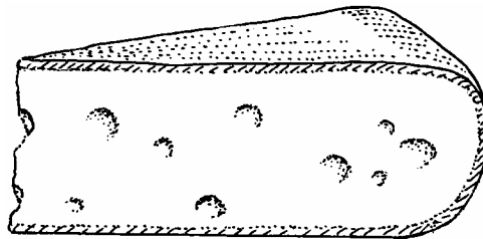
Complete the table.

| | grams | kilograms |
|----------|-------|-----------|
| potatoes | 3500 | 3.5 |
| apples | | 1.2 |
| grapes | 250 | |
| ginger | | 0.03 |



2 marks

29. This piece of cheese has a mass of **350 grams**.

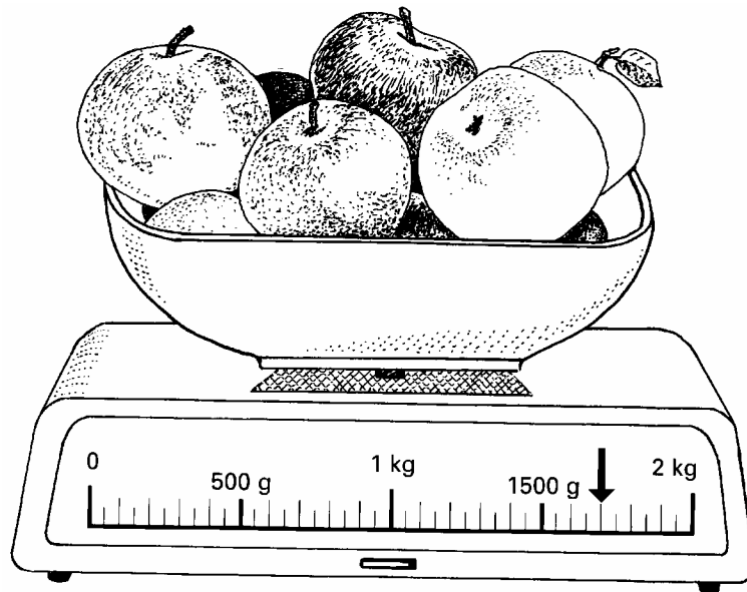


Mark an **arrow** (↓) on the scale to show the reading for **350 g**.



1 mark

Here are some apples.

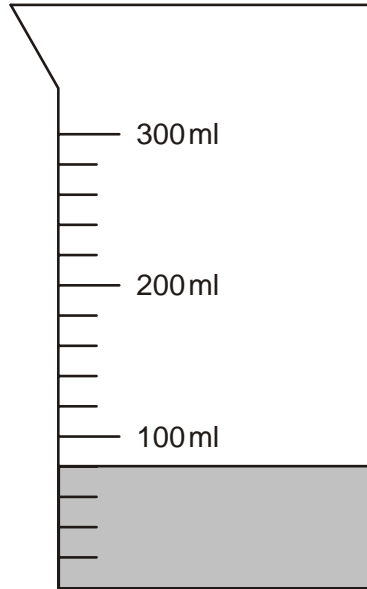


What is the **total mass** of these apples?

A small icon of a pencil pointing towards a rectangular box, indicating where the student should write their answer.

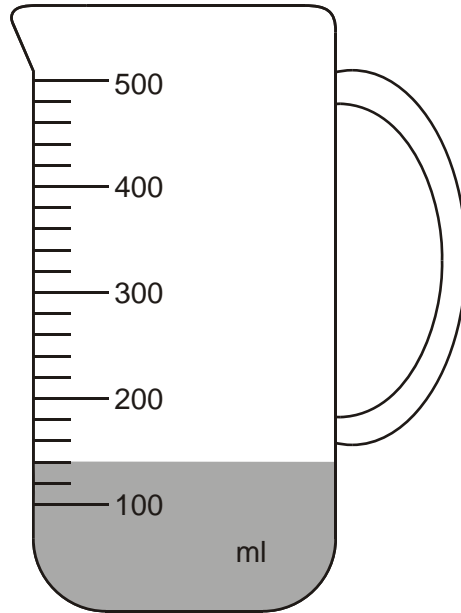
1 mark

- 30.** Hassan has a jug with some water in it.
He adds another 140 millilitres of water.
Draw a line to show the new level of water.




1 mark

31. Mr Khan makes a blackcurrant drink for a party.
He pours blackcurrant squash into a jug.

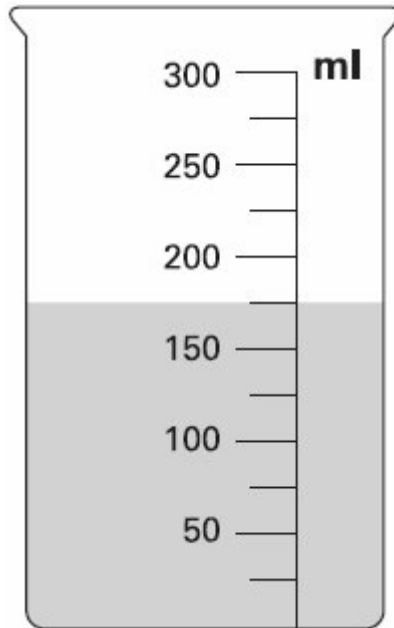


How much water must he add to make **500 millilitres** of drink?

 ml

1 mark

32. David puts this amount of water in a container.



Then he pours **50 millilitres** of the water out.

How much water is left in the container?

A pencil icon pointing to a rectangular box with "ml" written inside.

1 mark

33. Katie's glass holds a **quarter of a litre** when it is full.



She nearly fills it to the top with juice.

Tick (✓) the approximate amount of juice she puts in the glass.



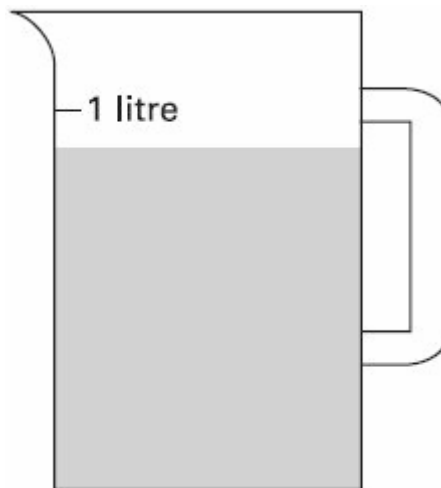
- 4 millilitres
- 20 millilitres
- 120 millilitres
- 220 millilitres
- 420 millilitres

1 mark

34. Sophie poured some water out of a **litre** jug.

Look how much is left in the jug.

Estimate how many millilitres of water are left.

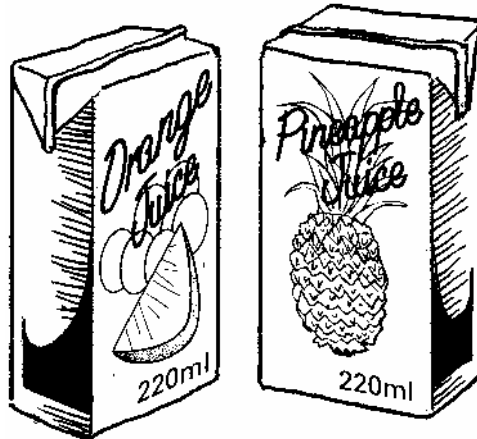


ml

1 mark

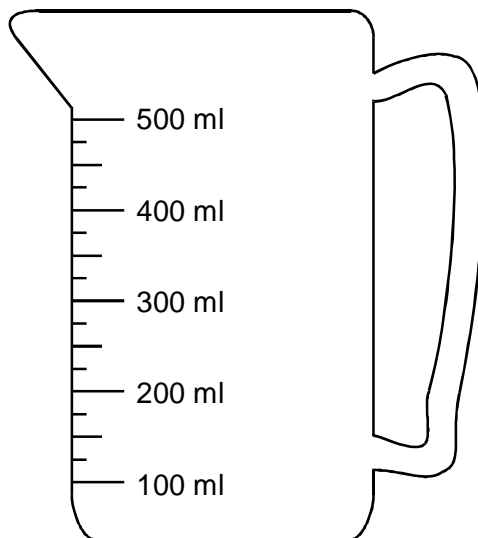
35. Mina has two cartons of juice.

Each carton contains **220ml**.



She empties them both into this jug.

Draw an arrow (→) to show the level of the mixture in the jug.



1 mark

36. Circle one amount each time to make these sentences correct.

One has been done for you.

The distance from
London to Manchester is about

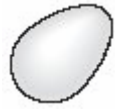
| |
|--------|
| 320 cm |
| 320 m |
| 320 km |

A tea cup is likely to hold about



| |
|---------|
| 15 ml |
| 150 ml |
| 1500 ml |

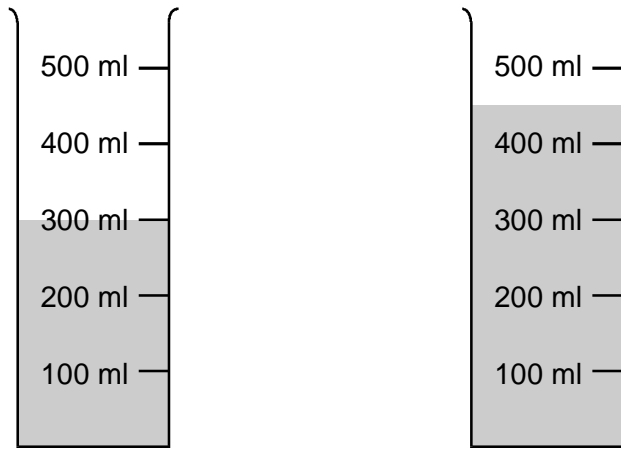
A hen's egg is likely to weigh about



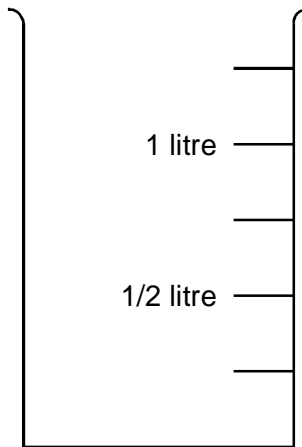
| |
|------|
| 6g |
| 60g |
| 600g |

1 mark

37. All the water in these two containers is to be poured into the empty container below.



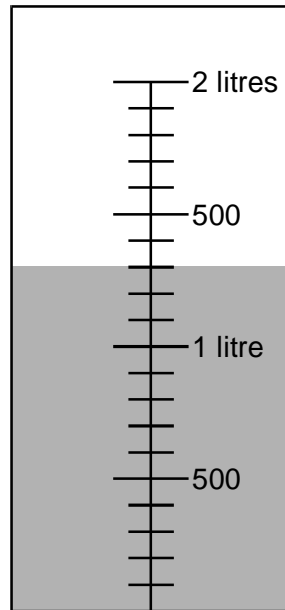
Draw where the water level will be in the container.



1 mark

38. This is the scale on the side of a measuring jar.

There is some coloured water in the jar.



How much **more** water is needed to make **2 litres**?

1 mark