

Year 5 Optional SATs

Mathematics

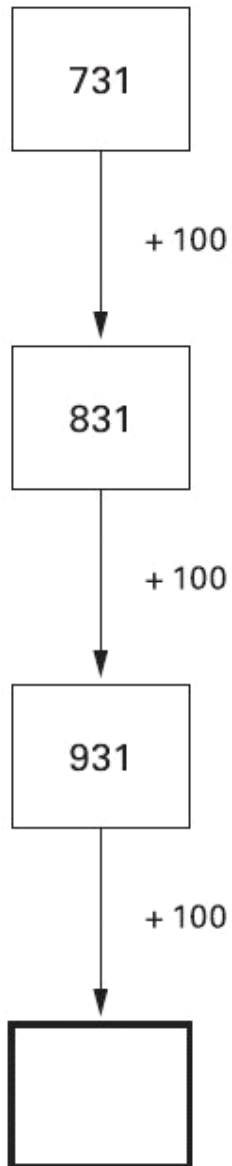
2003

35 min

35 marks

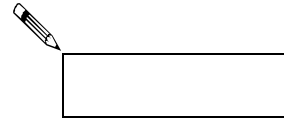
Paper A

1. Write in the missing number.



1 mark

2. Calculate **584 + 79**



1 mark

3. Here is part of a calendar.

December						
Mon	Tues	Wed	Thur	Fri	Sat	Sun
		1	2	3	4	
6	7	8	9	10		
13	14	15				
20	21	22				
27	28					

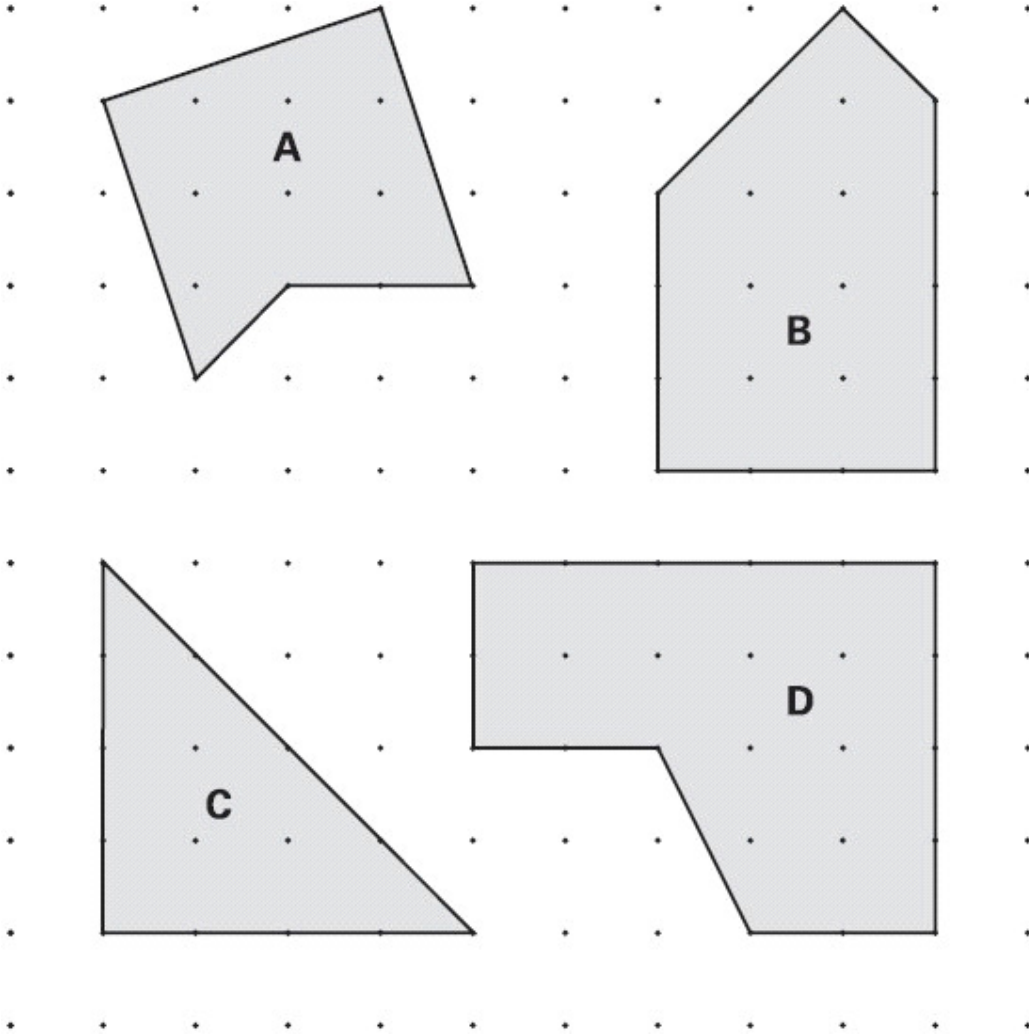
Tyrone's birthday is on **December 18th**.

On what day of the week is Tyrone's birthday?

1 mark

4. Here are four shapes.

They each have a different number of right angles.



Write the letter for each shape in the correct order.

One has been done for you.



fewest right angles			most right angles
C			

1 mark

5. Calculate $137 - 65$



1 mark

6. Write the **two** missing numbers in this sequence.



$\frac{1}{4}$

$\frac{1}{2}$

$\frac{3}{4}$

1

$1\frac{1}{2}$

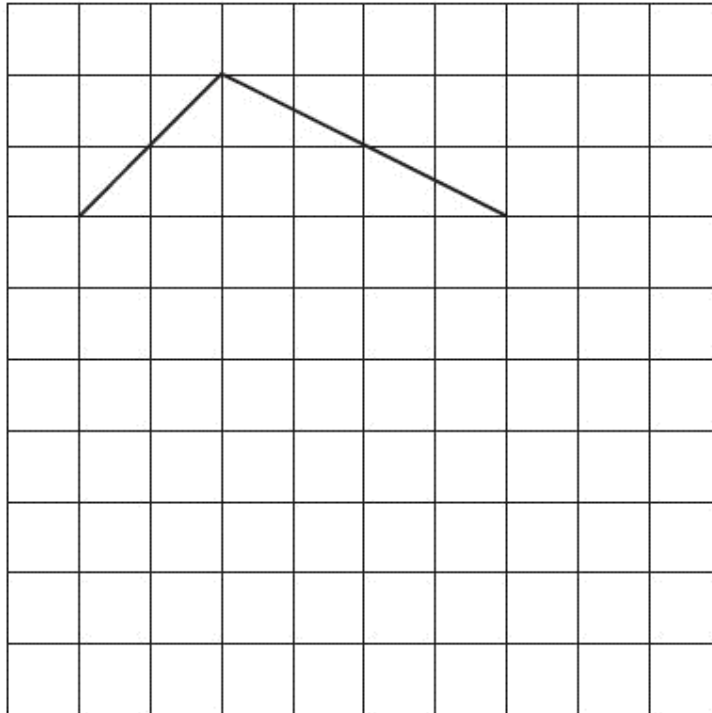
2

1 mark

7. The lines drawn on the grid are two sides of a **pentagon**.

Complete the pentagon.

Use a ruler.



1 mark

8. Here are four digit cards.



Use each of the digits **once** to make a **total that is a multiple of 5**



1 mark


9. Peter and Stella compare colours they like and do not like.

Here is a sorting diagram that shows their results.



	Peter likes	Peter does not like
Stella likes	red black	orange white
Stella does not like	purple green	yellow

Write the colours that Stella likes but Peter does **not** like.

 and

1 mark

Peter likes the colour blue but Stella does not.

Write **blue** in the correct place on the sorting diagram above.

1 mark

10. Here is an arrow.



The arrow is **rotated 90° clockwise**.

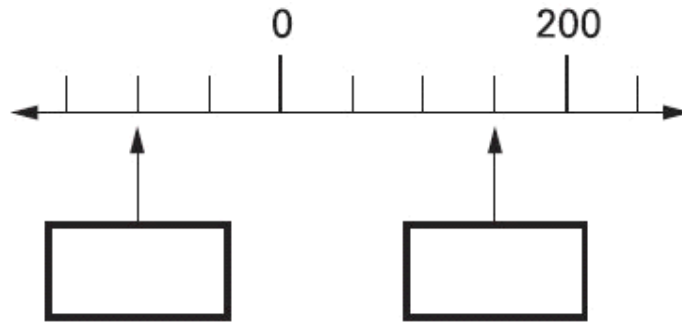
In which direction does the arrow now point?
Put a tick (✓) by the correct answer.



1 mark

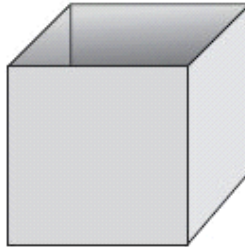
11. Here is part of a number line.

Write the missing numbers in the boxes.



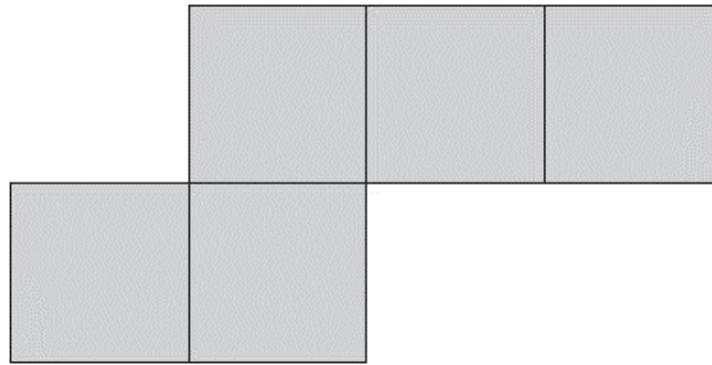
2 marks

12. Here is an **open top** cube.



Here is the net from which it is made.

Put a tick (✓) on the square which is its **base**.

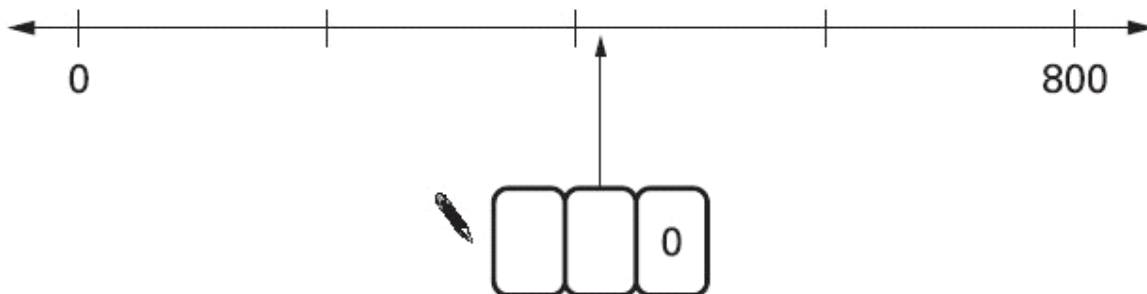


1 mark

13. Here are four digit cards.



Use **two** of the four cards to make the number on the number line.



1 mark

14. Circle the **two** divisions which have an answer of **5 remainder 2**



17 □ 5

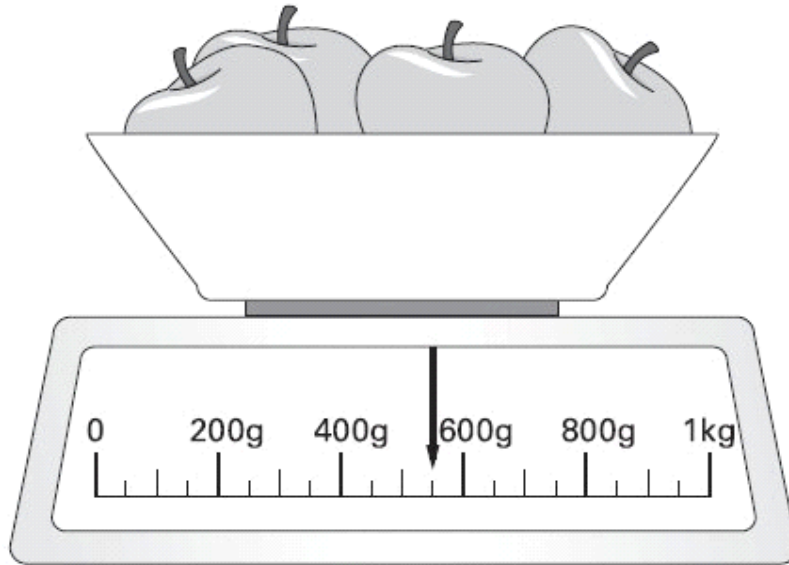
17 □ 3

22 □ 4

22 □ 5

1 mark

15. Here are some apples.



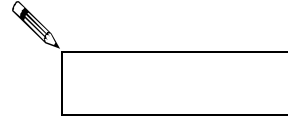
What is the total weight of these apples?



g

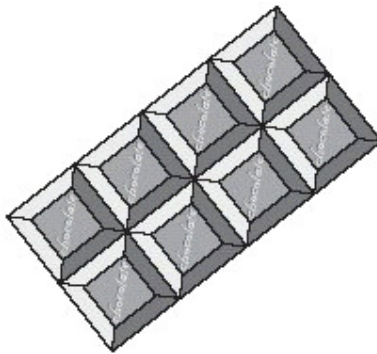
1 mark

16. Calculate $6247 - 2752$



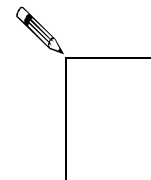
1 mark

17. Here is a chocolate bar.



William eats 3 pieces and Amber eats 2 pieces.

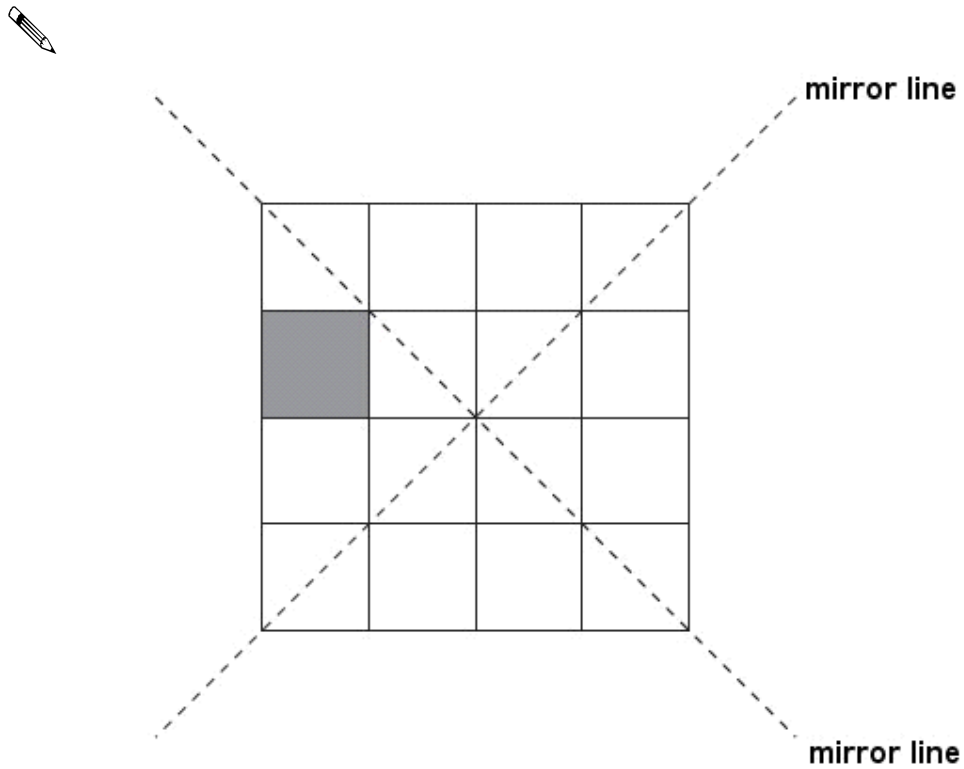
What **fraction** of the chocolate bar **remains**?



1 mark

18. Here is a shaded square on a grid.

Shade in **3 more squares** so that the design is symmetrical in **both** mirror lines.



1 mark

19. Here are four number cards.



Which two number cards are **factors of 42**?

A pencil icon is positioned to the left of two empty rounded rectangular boxes. The word "and" is placed between the two boxes.

1 mark

20. Asim and Mike both buy **12** cans of lemonade.



pack of 4 cans
£1.20

Asim buys 3 packs of 4 cans.



pack of 6 cans
£1.70


Mike buys 2 packs of 6 cans.

Mike says to Asim,

'You paid 50p more than me'.

Is Mike correct?

Circle **Yes** or **No**.

 Yes / No

Explain how you know.



.....

.....

.....

1 mark

21. Write the **same** number in each box to make this correct.

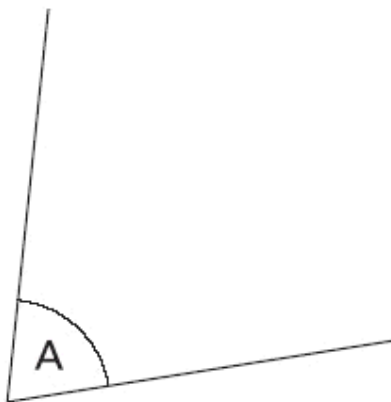


$$\boxed{} + \boxed{} + \boxed{} = 10.5$$

1 mark

22. Measure **angle A** accurately.

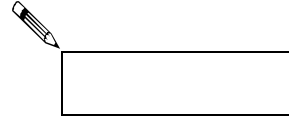
Use a protractor (angle measurer).



angle A = °

1 mark

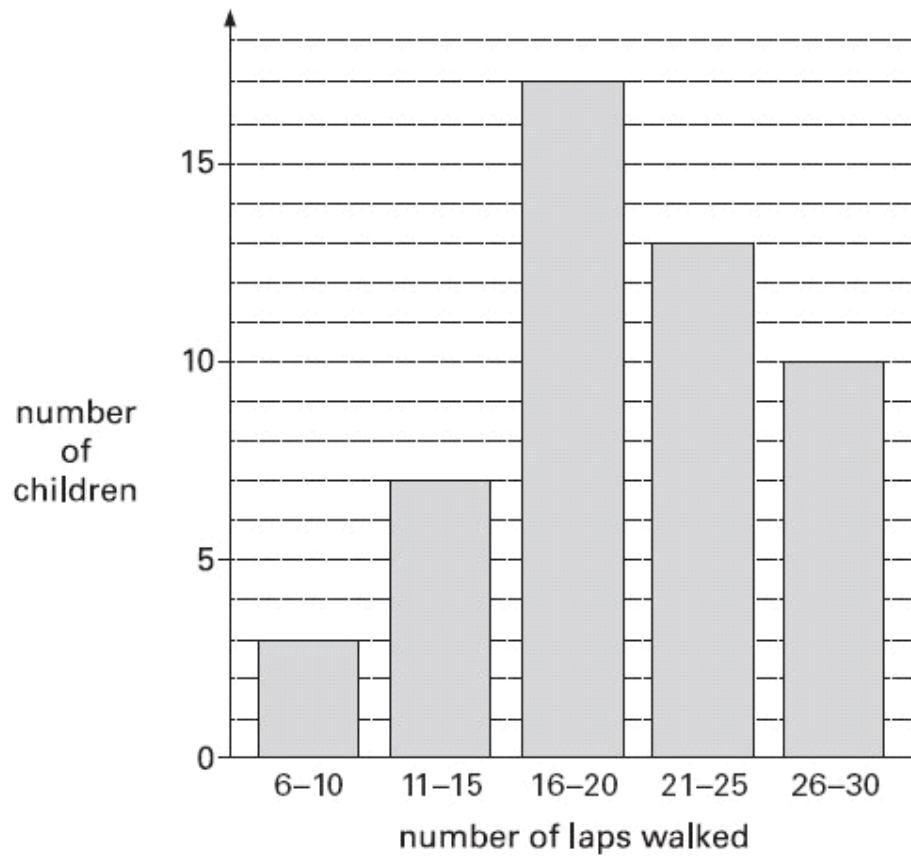
23. Calculate $942 \div 6$

A small icon of a pencil pointing towards the top-left corner of a rectangular box, indicating where to write the answer.


1 mark

24. Some children do a sponsored walk.

The graph shows their results.



How many children walked **21 laps or more**?



1 mark

25.

Car Boot Sale	
Entrance Fee	
Adults	50p
Children	30p

100 adults and 80 children pay to go in.

How much money do they pay altogether?

Show your **working**.
You may get a mark.

£

2 marks

26. Here are the sunrise and sunset times for some days in July.

Date	Sunrise	Sunset
7th	04:53	21:18
14th	05:00	21:12
21st	05:09	21:05
28th	05:18	20:55

How many minutes earlier is the **sunset** on 28th July than on 7th July?



minutes

1 mark

27. Write these numbers in order.

One has been done for you.

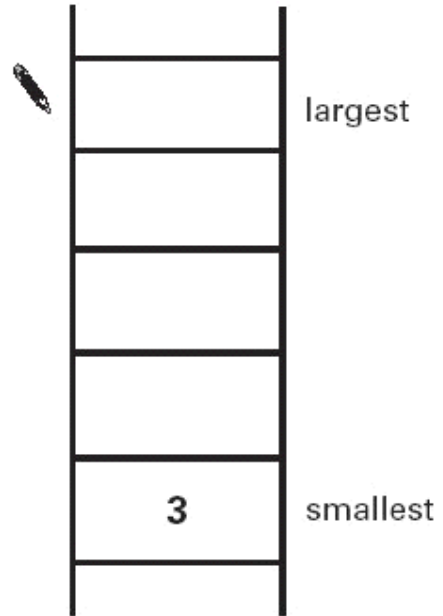
3.03

3.23

3.3

3

3.2

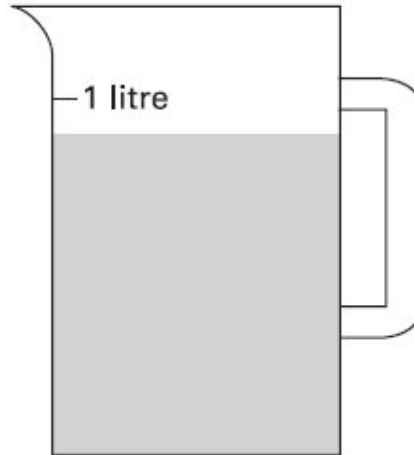


1 mark

28. 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.

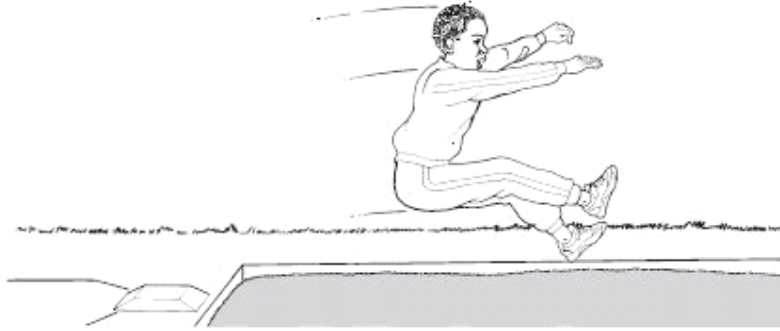


1 mark

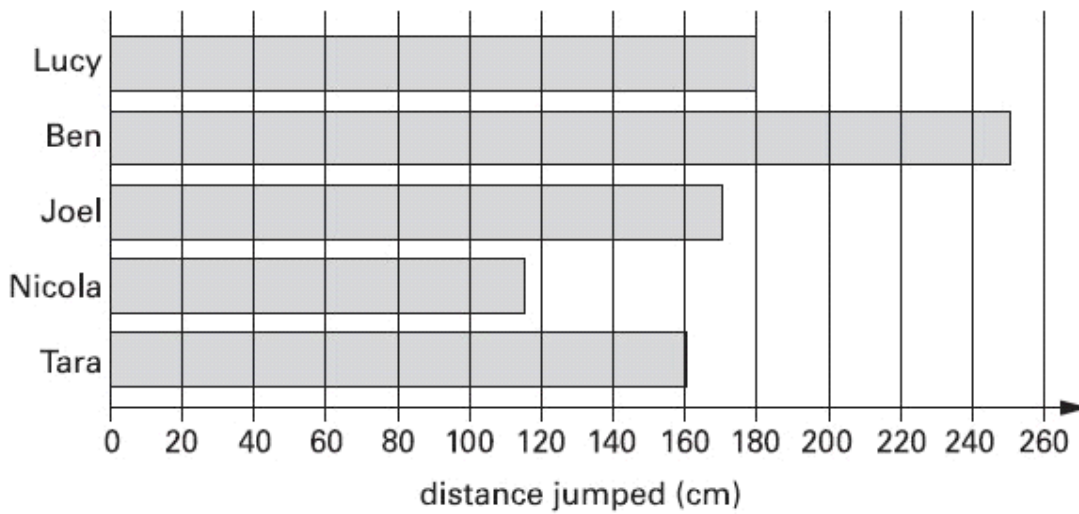
29. Calculate 47×2 ✕

2 marks


30. Some children take part in the long jump.



The graph shows the distances the children jumped.

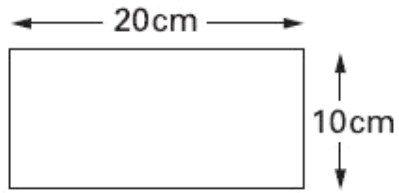


Estimate how much further Lucy jumped than Nicola.

 cm

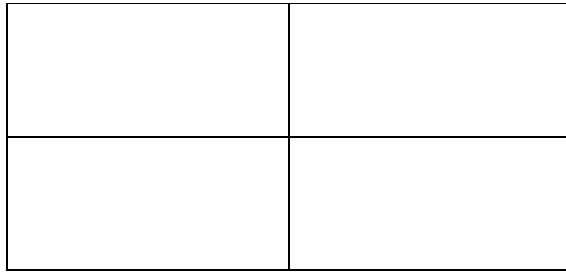
1 mark

31. Rebecca has rectangular tiles like this.



Not to scale

She makes a larger rectangle using 4 of the tiles.



What is the **area** of the larger rectangle?

A pencil icon pointing to a rectangular box. Inside the box, the text "cm²" is written.

1 mark