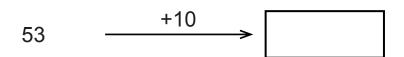
testbase

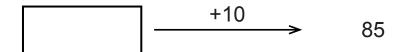
Year 3 Mid-year Reasoning

Name	
Class	
Date	

Arithmetic Y3

1. Write the missing numbers.





1 mark

2. Write these numbers in order, starting with the **smallest**.

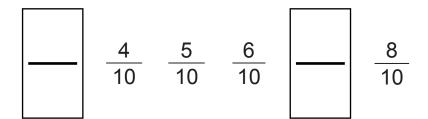
841 184 148 814 144



smallest



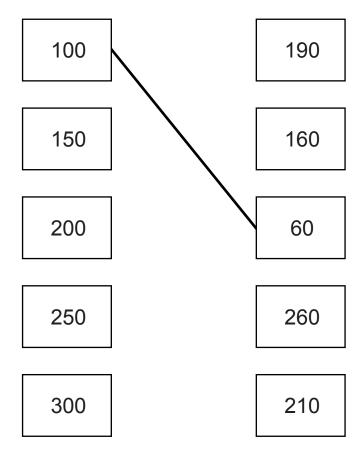
3. Write the missing fractions in the sequence.



1 mark

4. Draw lines to join all the pairs of number cards which have a difference of 40

One has been done for you.



2 marks

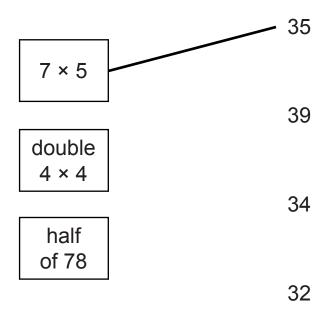


5. Write the missing numbers.

36 32 28 20

6. Join each box to the correct number.

One has been done for you.

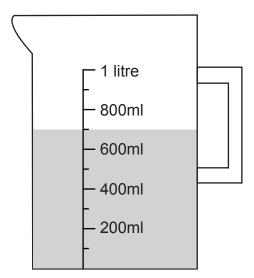




7. Write the missing numbers.

1 mark

8. Jason has a jug with some water in.



How many **more** millilitres must he add to make 1 litre?

ml

9.	Write	in the	missing	digits.

5		+		3	=	1	0	0
---	--	---	--	---	---	---	---	---

10. Mia needs to solve this problem.

How many children in the class walk to school?

There are 18 boys in the class.

Tick (\checkmark) all the information that Mia needs to solve her problem.

6 girls in the class walk to school.
Twice as many boys as girls walk to school.

1 mark

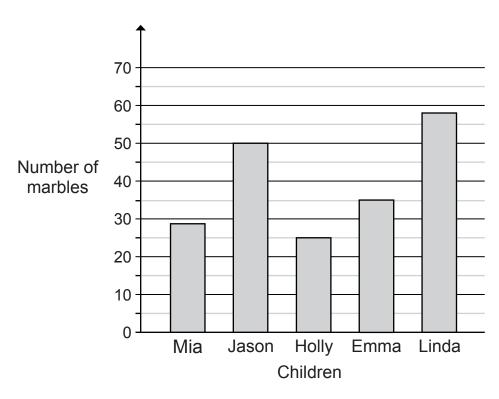
Jason needs to solve this problem.

How much do 3 bananas and a melon cost?

Tick (\checkmark) all the information that Jason needs to solve his problem.

Jason has £3
A melon costs £1.50 more than a banana.
A banana costs 40p

11. This graph shows the number of marbles that some children have.



Who has between 30 and 40 marbles?	
	- 1 mark
Estimate how many marbles Mia has.	
	1 mark

12. Write the two missing numbers in this sequence.

1	1_	3	1	11	2
4	2	4	'	$1\frac{1}{2}$	

13. Holly and Jason play a game.

Holly scores 80 points.

Jason scores 38 points.

How many more points does Holly score than Jason?

1 mark

14. Here is a multiplication.

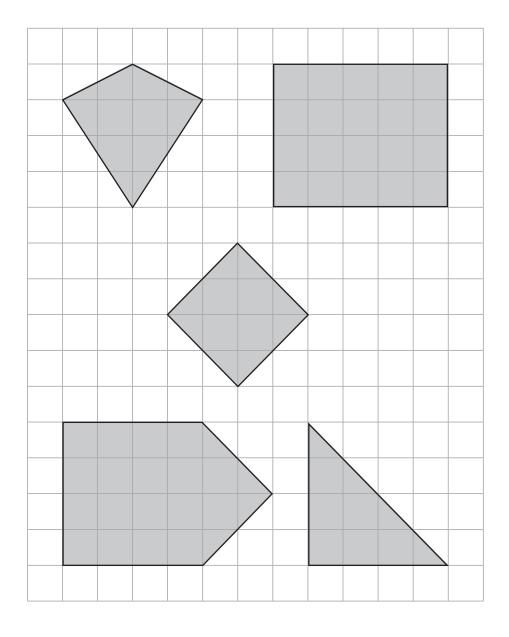
$$3 \times 5 = 15$$

Write a division which uses the same three numbers.



15. Here are some shapes on a square grid.

Tick (\checkmark) the shape that has **exactly three** right angles.



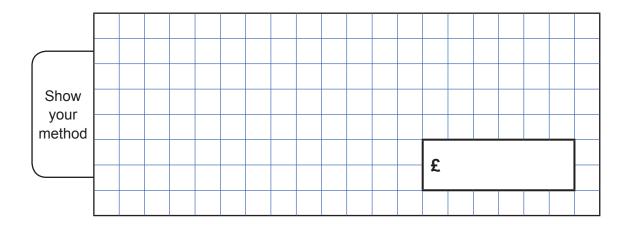


16. Mia has these coins.



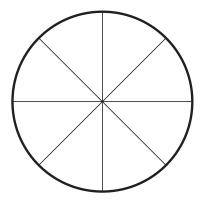
Holly has £1.50

How much more money does Mia have than Holly?



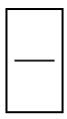
2 marks

17. Here is a pizza cut into 8 equal slices.



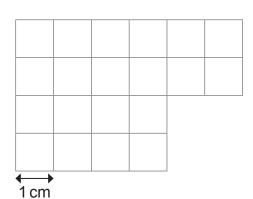
Jason eats 4 slices and Mia eats 1 slice.

What fraction of the pizza remains?



1 mark

18. Here is a shape divided into centimetre squares.



Actual size

What is the **perimeter** of the shape?

cm



- Circle the **two** fractions that have the same value as $\frac{1}{2}$ 19.

- $\frac{2}{4}$ $\frac{2}{1}$ $\frac{3}{5}$ $\frac{5}{10}$ $\frac{1}{3}$

Jason gets £5 pocket money each week. 20.

Holly gets £3 pocket money each week.

They both save all their money for ten weeks.

How much more money has Jason saved than Holly?

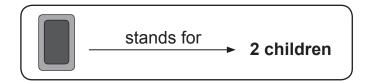
£

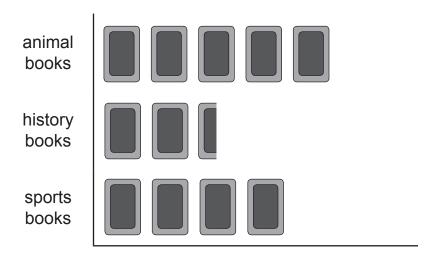


21. Mia asked each child in her class,

'What kind of books do you prefer to read?'

Here are her results.

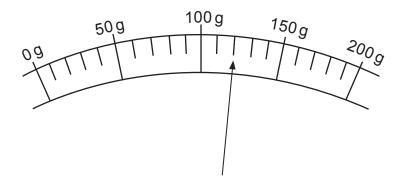




How many **more** children prefer to read animal books than history books?

	1 mark

22. Here is a scale which shows the mass of an orange.



What is the mass of the orange?

grams

1 mark

23. In the high jump, Holly jumped 1 m 12 cm.

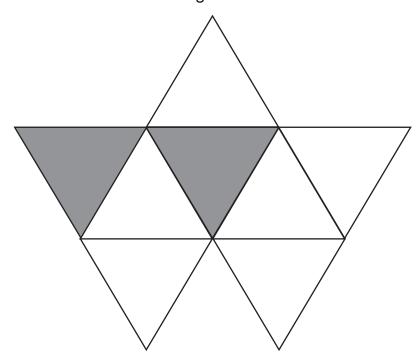
Jason jumped 95 cm.

How much higher was Holly's jump?

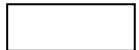
cm

24. Mia wants to shade $\frac{3}{4}$ of this shape.

She has shaded 2 triangles.

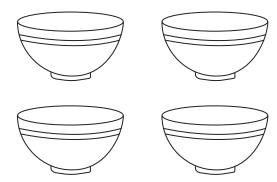


How many **more** triangles must she shade so that $\frac{3}{4}$ is shaded?





25. Holly has four bowls.



She puts 8 grapes in each bowl.

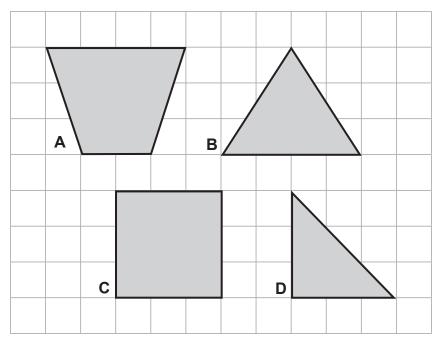
There are **5** grapes left over.

How many grapes did she start with?

grapes

1 mark

26. Here are four shapes.

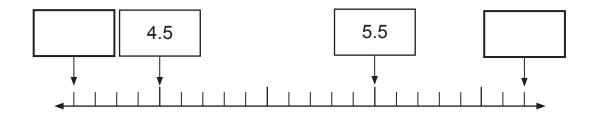


Write the letter of the shape that has **exactly** one pair of **perpendicular** sides.



27. Here is part of a number line.

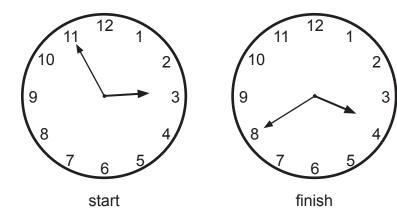
Write in the numbers missing from the two empty boxes.



1 mark

1 mark

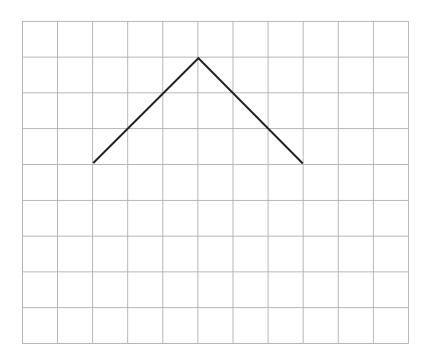
28. These clocks show the **start** and **finish** times of a film.



How many minutes does the film last?

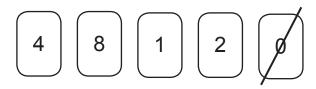
minutes

29. Draw **two** lines to complete the square.



1 mark

30. Here are five digit cards.



Three of these cards are used to make the number on the number line.

Write in the two missing digits.

