

Name _____ Date _____

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2012 Year 4 Optional SATs Test

Mathematics

Paper B for assessing at levels 3A 4C 4B 4A
45 minutes

1. Add together 456 and 368

1 mark

2. Here are two signs.



Use the signs to make these correct.

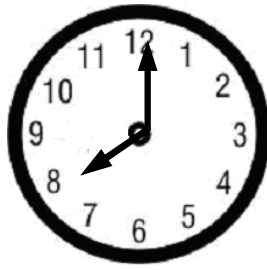
$62 \square 37$

$16 \square 61$

$1 \square 45$

1 mark

3. These clocks show the start and finish times of a TV programme.



start



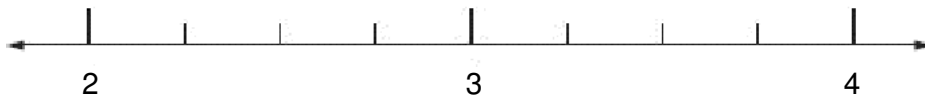
finish

For how many minutes does the programme last?

minutes

1 mark

4. Draw an arrow (↓) on the line to show $2\frac{3}{4}$



1 mark

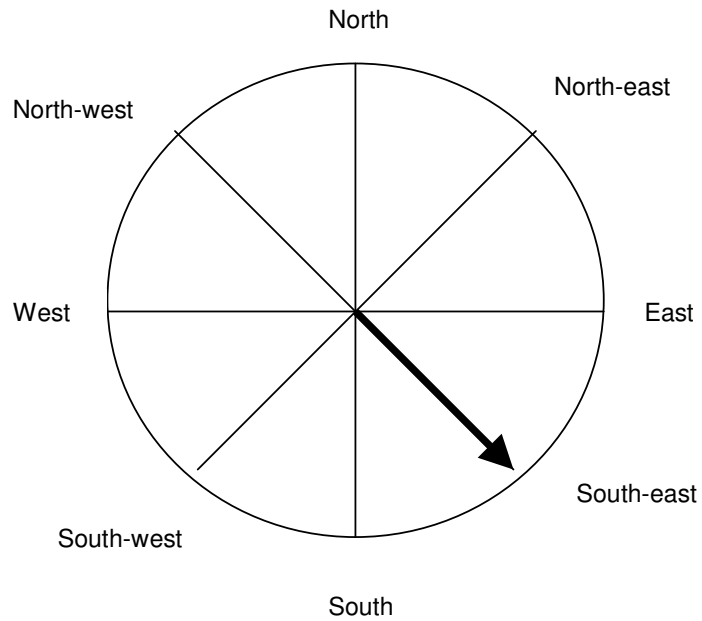
5. A packet of sweets costs 45p. How much do six packets cost?

Show how you worked it out.

£

2 marks

6. The arrow is pointing south-east.



The arrow is then moved a quarter turn anti-clockwise.

In which direction is the arrow pointing after it is moved?

.....

1 mark

7. Circle the two fractions which are greater than $\frac{1}{2}$

$$\frac{5}{7}$$

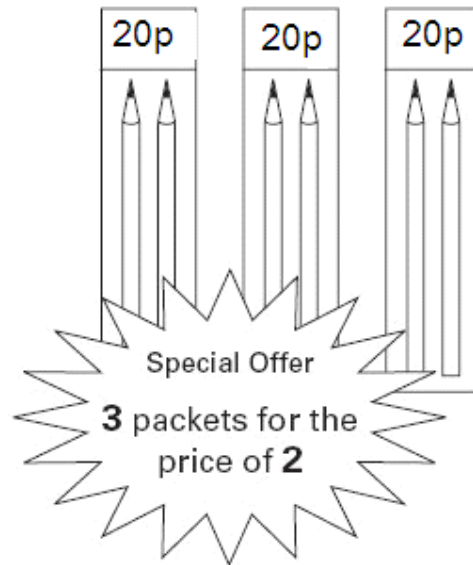
$$\frac{2}{10}$$

$$\frac{1}{4}$$

$$\frac{8}{10}$$

1 mark

8. A shop has these special offers.



Alesha wants to buy 6 pencils.

Which is the cheaper offer?

Tick (✓) one box.

Half price

3 for 2

Explain how you know.

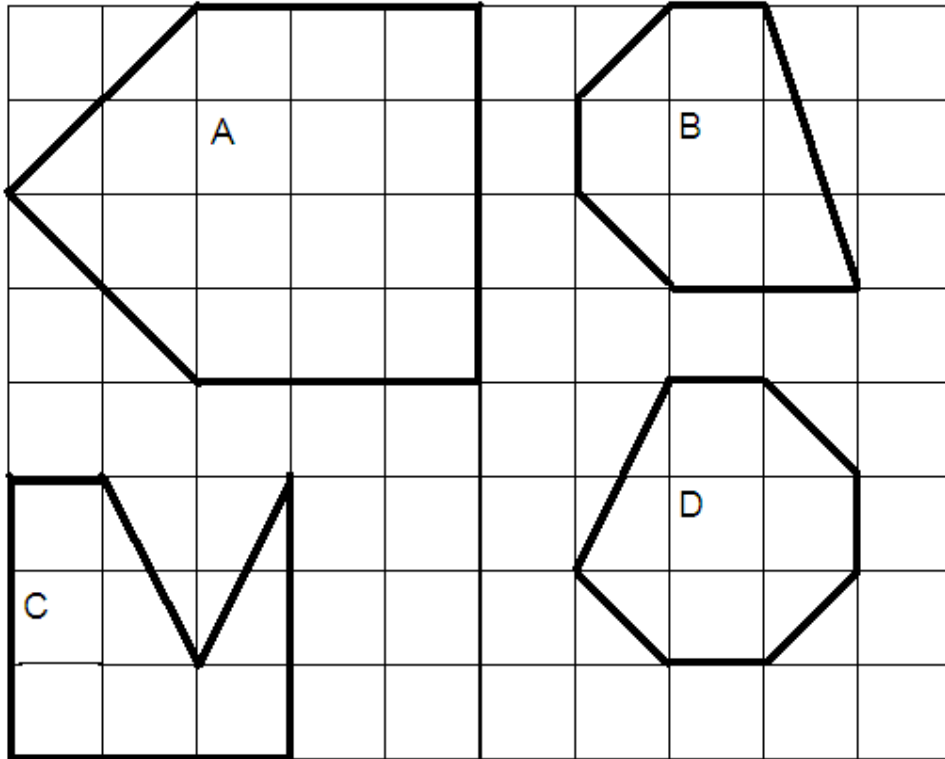
.....

.....

.....

1 mark

9. Here are 4 shapes on a square grid.



Complete the table.

	Property of shape	
	Is a hexagon	Has at least one right angle
Shape A	x	✓
Shape B	✓	x
Shape C		
Shape D		x

1 mark

10. Write in the missing digits

1		7	+	7		=	2	0	0
---	--	---	---	---	--	---	---	---	---

1 mark

11. Lucy has 24 toy cars.

$\frac{1}{2}$ of them are red

$\frac{1}{4}$ of them are yellow

The rest of them are blue.

How many blue cars does she have?

cars

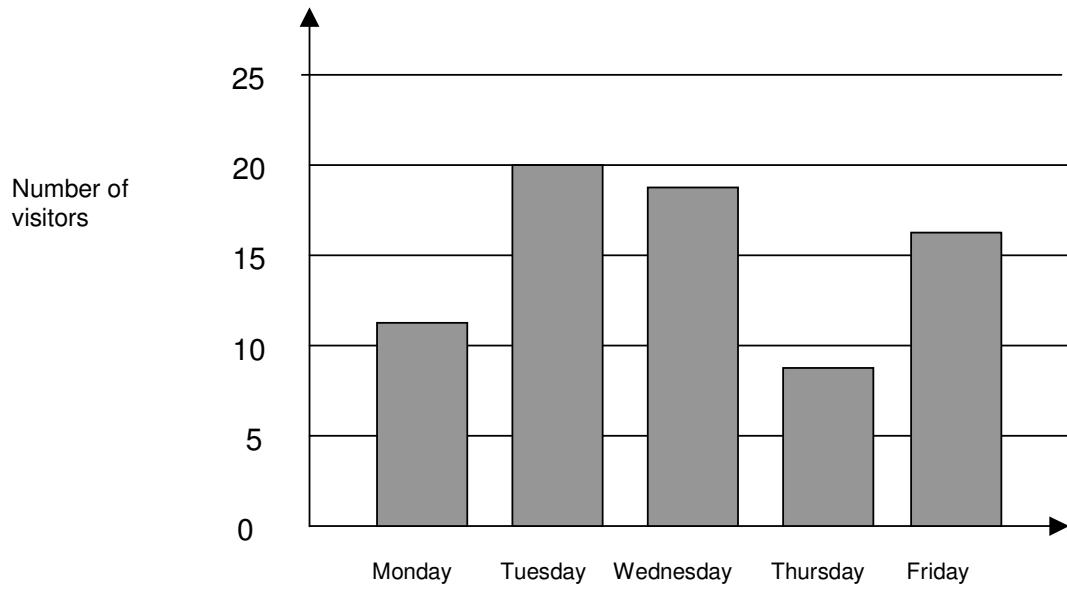
1 mark

12. What is the remainder when you divide 54 by 7?

remainder

1 mark

13. This graph shows the number of visitors to a school.

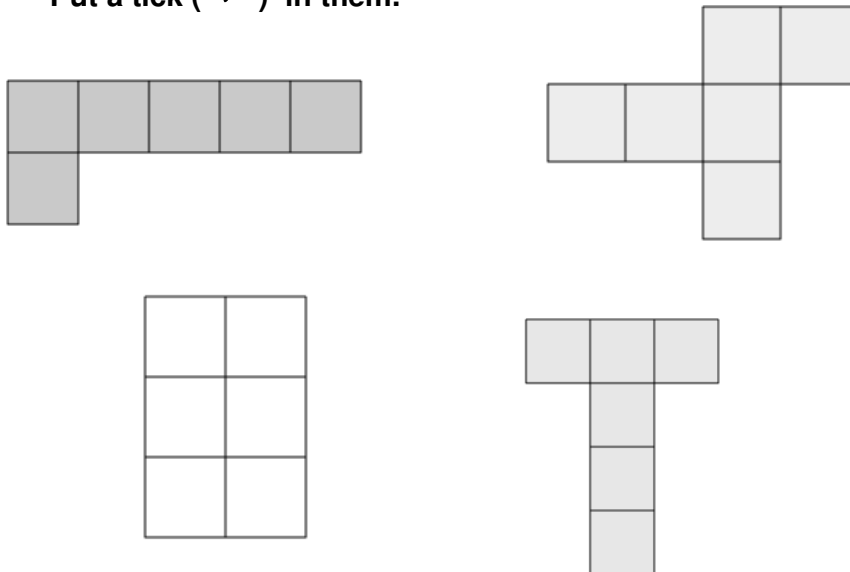


Estimate how many more visitors there were on Tuesday than Thursday.

1 mark

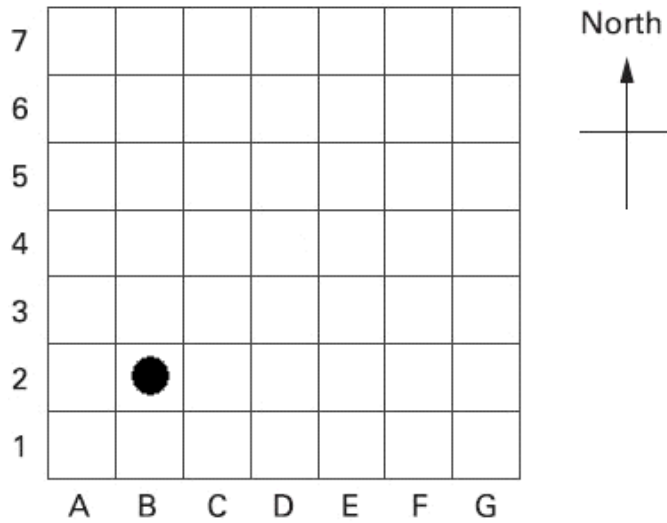
14. Two of these diagrams are nets for a cube.

Put a tick (✓) in them.



1 mark

15. Susan places a counter on square B2.



She moves it 4 squares east and 5 squares north.
Write the position of the square she moves it to.

1 mark

16. Write in the missing number.

$$5800 \div \square = 100$$

1 mark

17. Calculate $756 + 667$

1 mark

18. Draw two more arrows to match 4800 to numbers with the same value.

48 hundreds

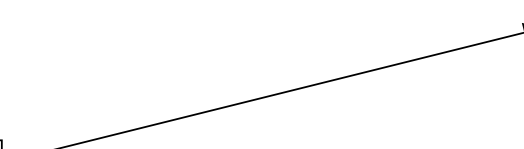
4800 ones

480 hundreds

480 tens

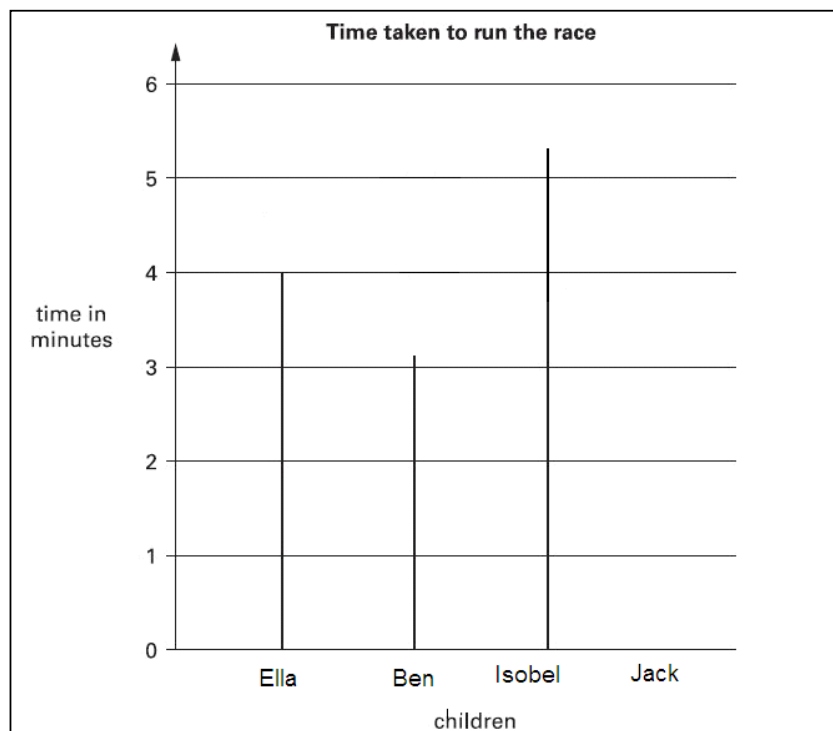
48 tens

4800



1 mark

19. Four children run in a race.
Jack takes 4 minutes 45 seconds.
Complete the graph for Jack .



1 mark

20. Calculate 589×7

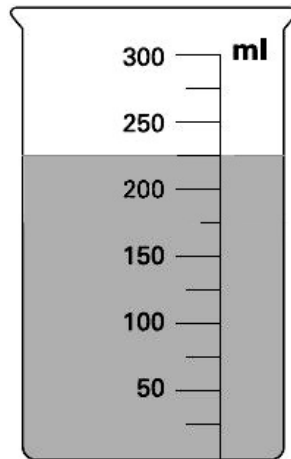
1 mark

21. A shelf is 3.25 metres long. Charlotte cuts 50 centimetres off it.

How long is it now?

1 mark

22. Usain 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?

1 mark

23. Ellie has the same number of 20p and 50p coins.
She has £4.20
How many of each coin has she?

of each coin

1 mark

24. Calculate $9.46 - 5.79$

1 mark

25. Match each box to the number which has the same value.
One has been done for you.

$\frac{1}{4}$

$\frac{1}{2}$

$\frac{2}{5}$

0.5

0.8

0.3

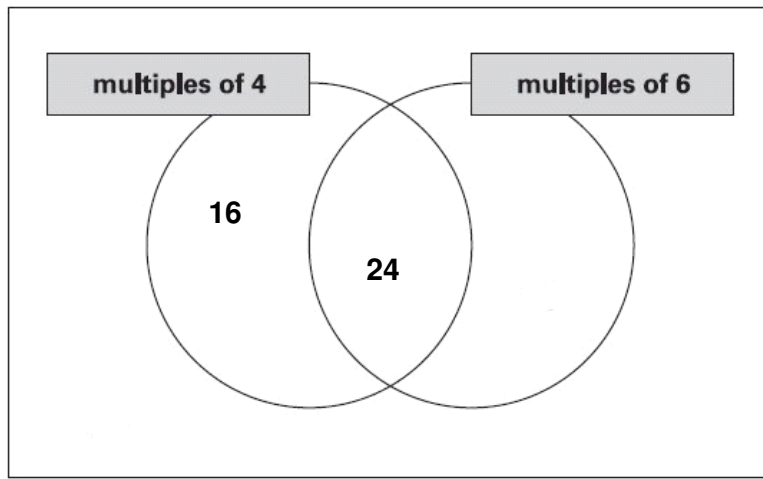
0.25

0.4

1 mark

26. Write these numbers in the correct places on this sorting diagram.

18 26 48



2 marks

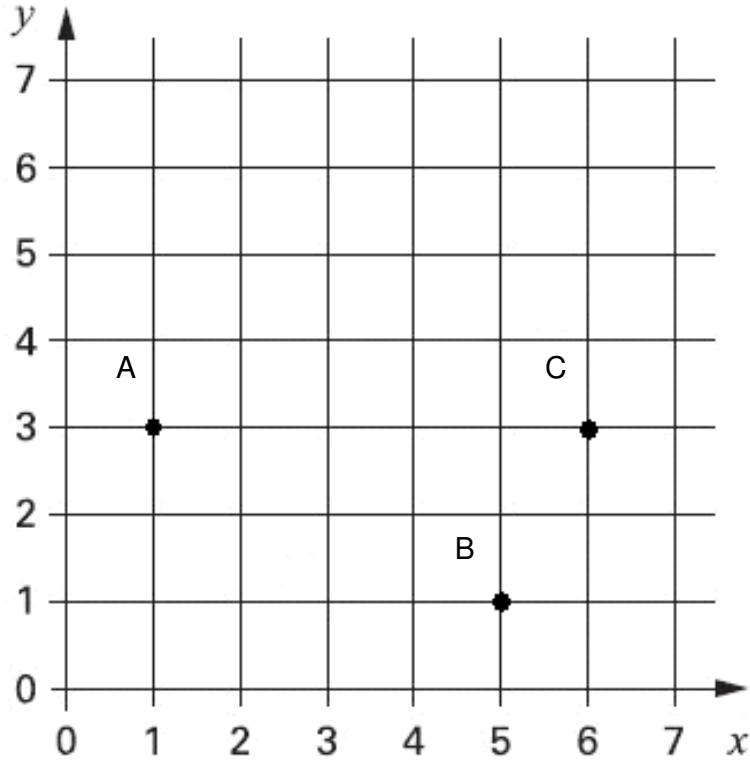
27. Four ice creams cost £5.20



Calculate the cost of one ice cream.

1 mark

28. A, B and C are three corners of a rectangle.



What are the coordinates of the fourth corner?

1 mark

29. Ella and her big brother Toby have a total weight of 90 kilograms

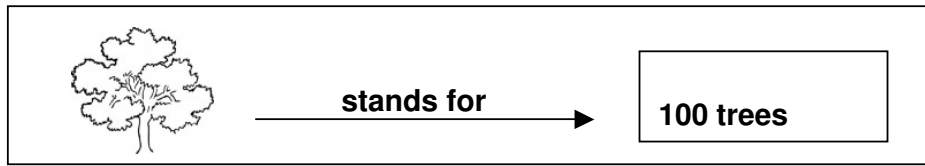
Toby weighs twice as much as Ella.

Write the weight of Toby.

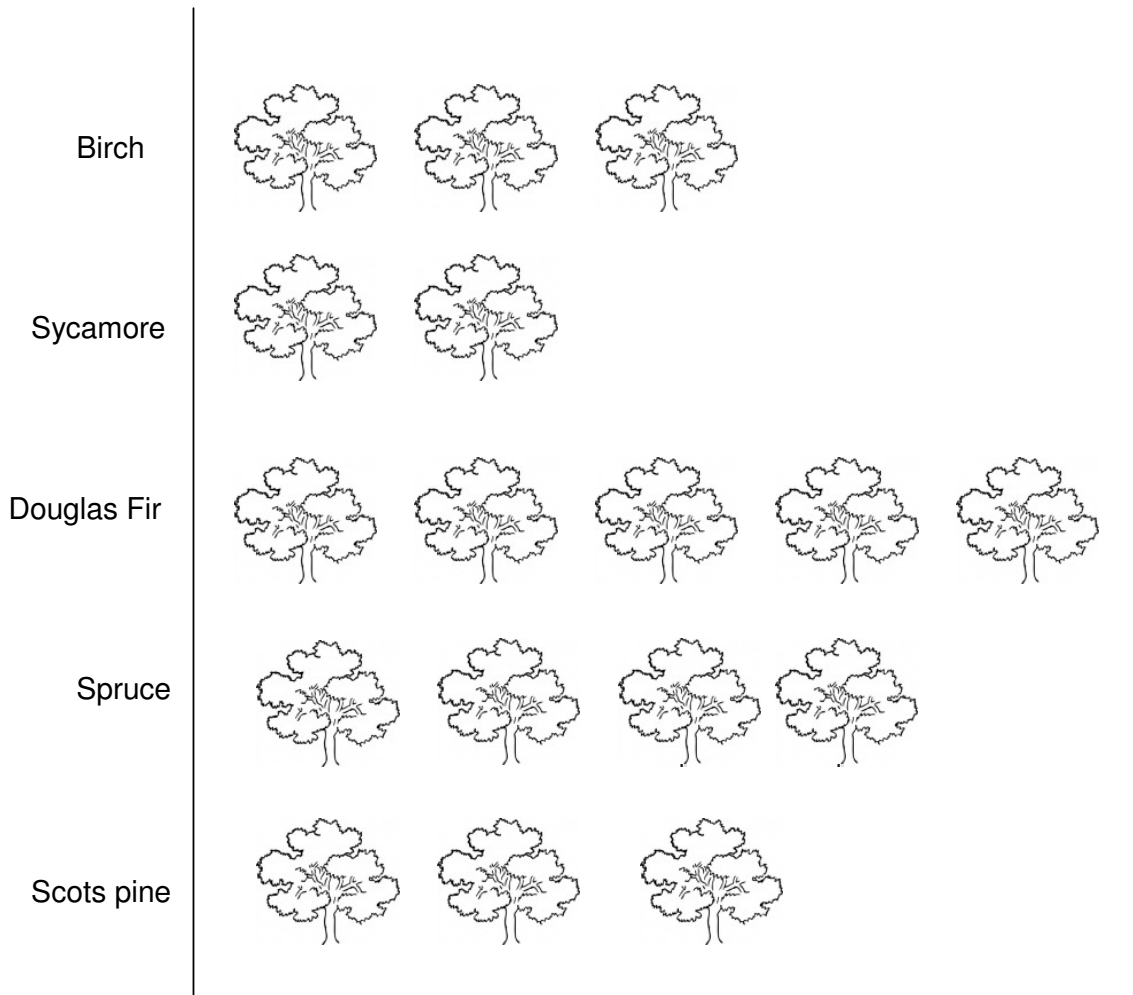
 kg

1 mark

30. Trees need to be planted in a forest.



Trees are planted as shown in this graph.



Altogether, 5000 trees are needed.

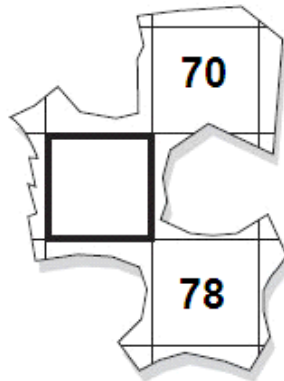
How many more need to be planted?

1 mark

31. Here is part of a number grid.

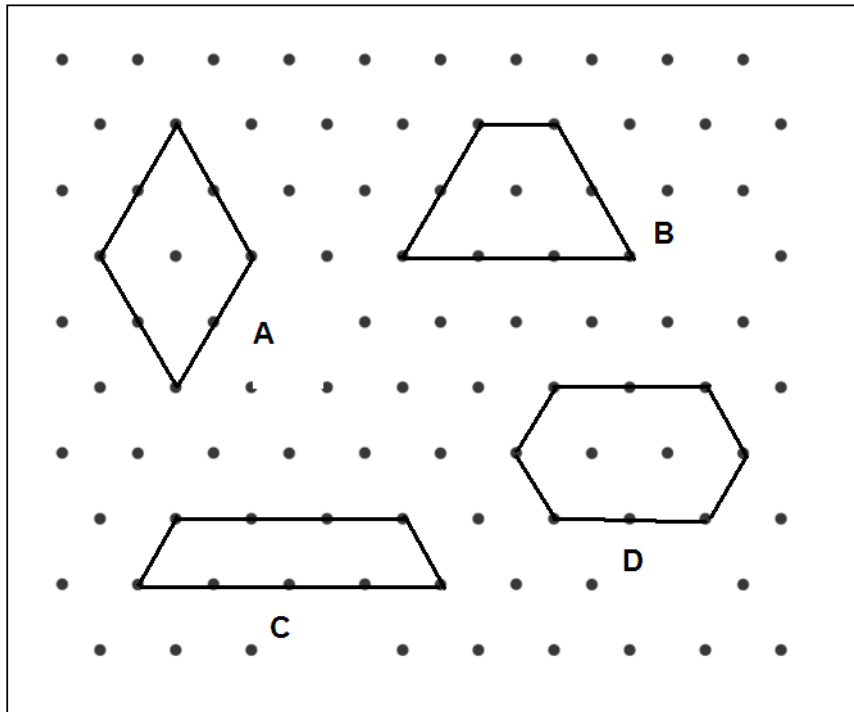
1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24

Here is another part of the same grid.
Write in the missing number.



1 mark

32. Here are some shapes.




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





..... and

1 mark

33.

 and  stand for different numbers.

 = 28

 +  =  +  + 

What is the value of  ?

1 mark