Name	Date

Satspapers.org 2012 Year 4 Optional SATs Test

Mathematics - mark scheme

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

45 minutes

1. Add together 456 and 368

824 **1 mark**

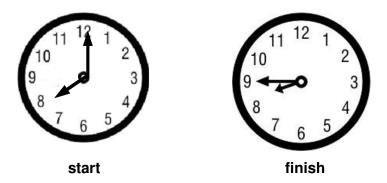
2. Here are two signs.





Use the signs to make these correct.

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



For how many minutes does the programme last?

45 minutes

1 mark

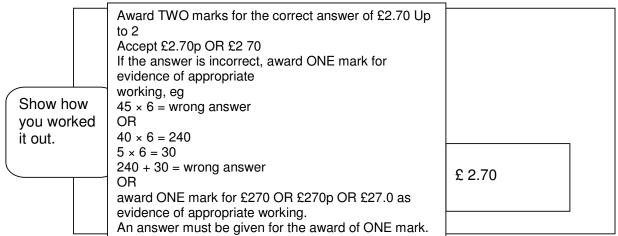
1 mark

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

An arrow drawn on the number line as shown:
Accept any other clear way of indicating 2 3/4 on the number line as long as the intention is clear.

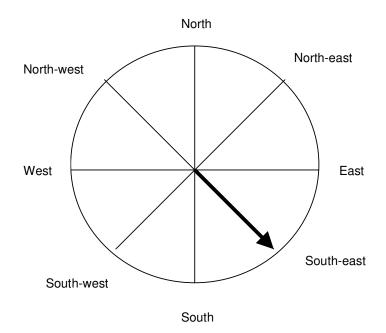


5. A packet of sweets costs 45p. How much do six packets cost?



2marks

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?

NE or north east	
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1 mark

Accept an unambiguous indication on the spinner.

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



<u>2</u> 10 -

<u>8</u> 10

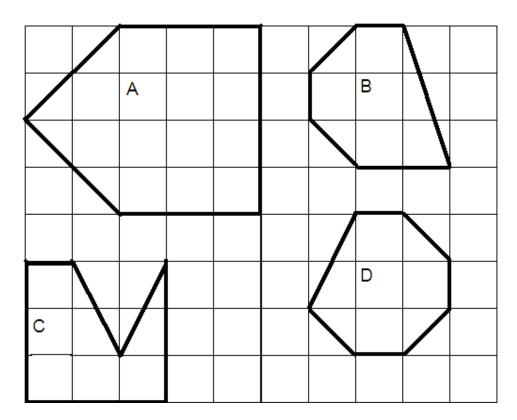
8. A shop has these special offers.



Alesha wants to buy 6 pencils.

Which is the cheaper offer?

9. Here are 4 shapes on a square grid.

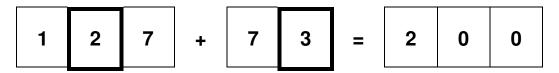


Complete the table.

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

Table completed as above

10. Write in the missing digits



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?

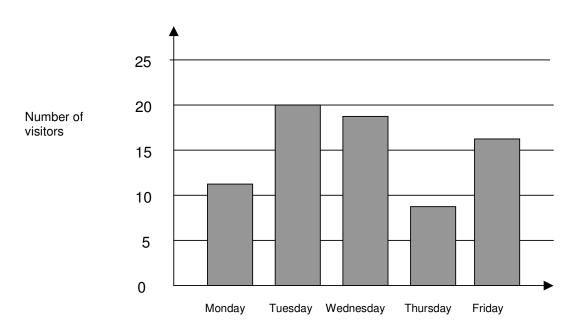
6 cars

1 mark

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

Remainder 5

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

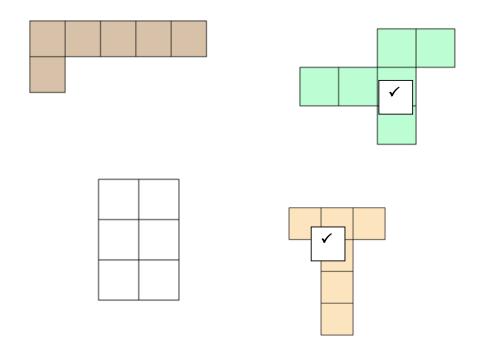


Estimate how many more visitors there we on Tuesday than Thursday.

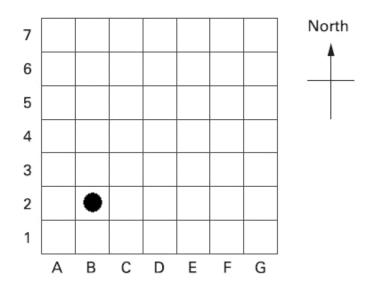
12		

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

Put a tick (\checkmark) in them.



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.

F7			

1 mark

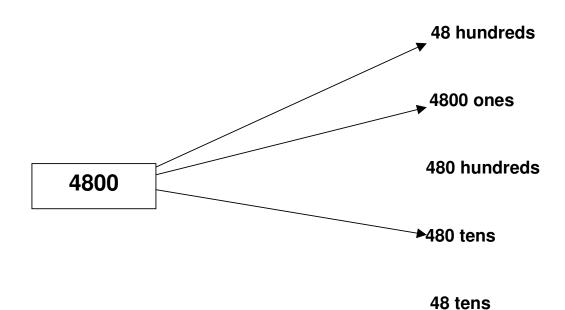
16. Write in the missing number.

1 mark

17. Calculate 756 + 667

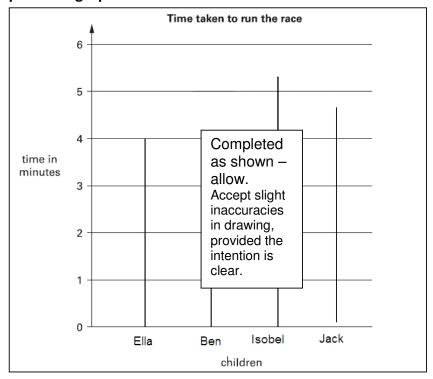
1423

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



1 mark

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



4123

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

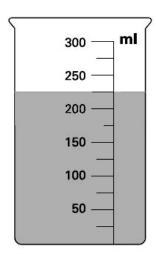
How long is it now?

2.75m or 275cm

1 mark

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?

175 ml

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



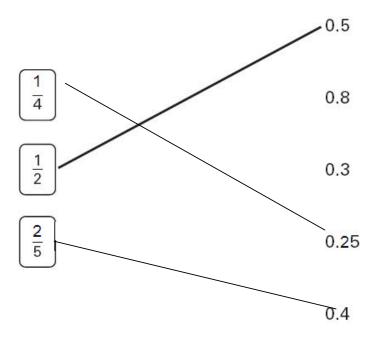
1 mark

24. Calculate 9.46 - 5.79



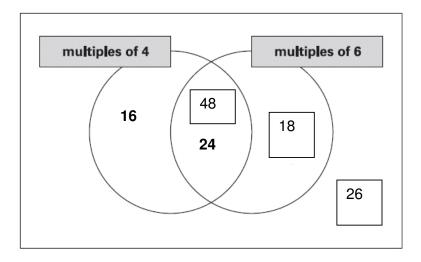
25. Match each box to the number which has the same value.

One has been done for you.



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

18 26 48



2 marks for all correct. 1 mark for 2 correct.

2 marks

27. Four ice creams cost £5.20

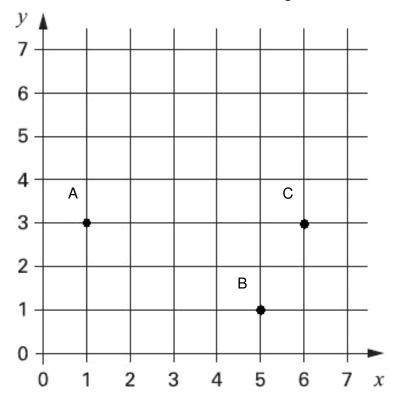


Calculate the cost of one ice cream.

Allow £1.30p

£1.30 or 130p

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

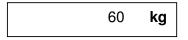


What are the coordinates of the fourth corner?

(2	,	5)

1 mark

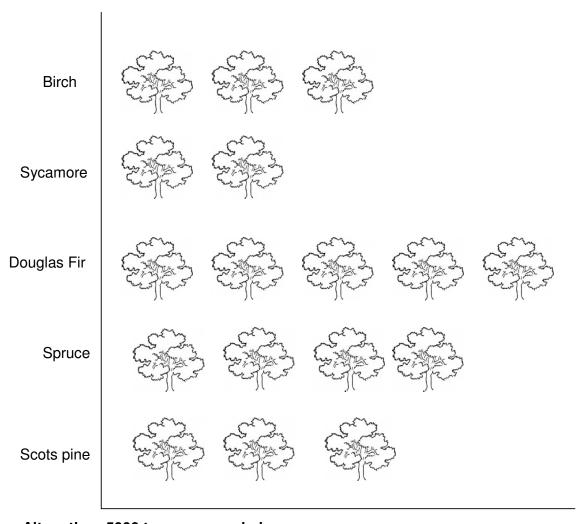
29. Ella and her big brother Toby have a total weight of 90 kilogramsToby weighs twice as much as Ella.Write the weight of Toby.



30. Trees need to be planted in a forest.



Trees are planted as shown in this graph.



Altogether, 5000 trees are needed.

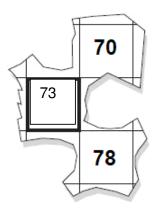
How many more need to be planted?

3300

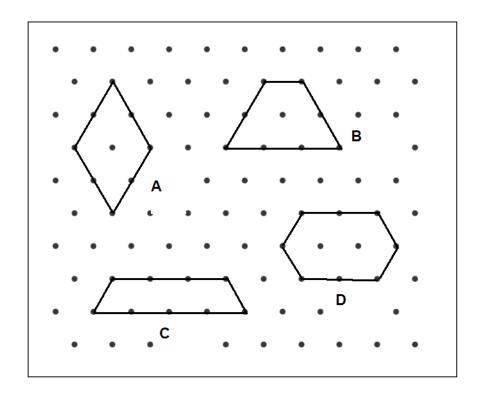
31. Here is part of a number grid.

1	2	3	4
5	6	7	8
9	10	111	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.



32. Here are some shapes.



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

E	3
	1 mark

33.

What is the value of ?

14 **1 mark**