

Name \_\_\_\_\_ Date \_\_\_\_\_

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2012 Year 4 Optional SATs Test

Mathematics – mark scheme

Paper A for assessing at levels 2A 3C 3B  
45 minutes

1. Write the numbers in order in the circles.

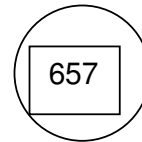
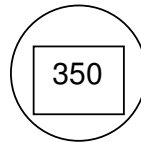
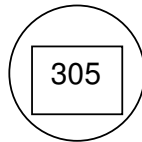
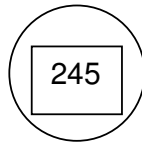
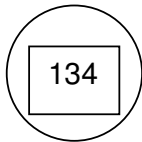
134

657

305

245

350



Smallest

Largest

1 mark

2. Look at each number sentence.

Put a tick (✓) if it is correct.

Put a cross (x) if it is not correct.

$$7 \times 2 = 7 + 7$$



$$4 \times 10 = 4 + 4 + 4$$

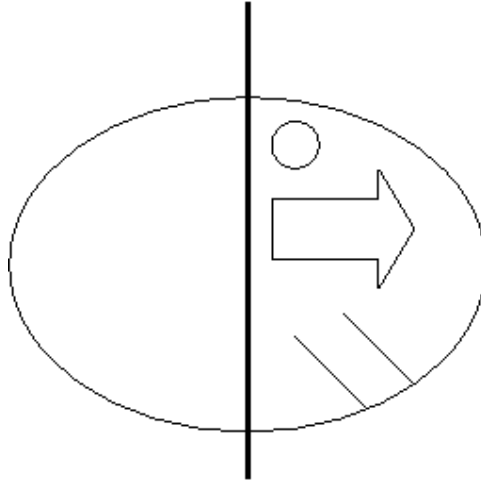


$$3 \times 4 = 4 + 4 + 4$$

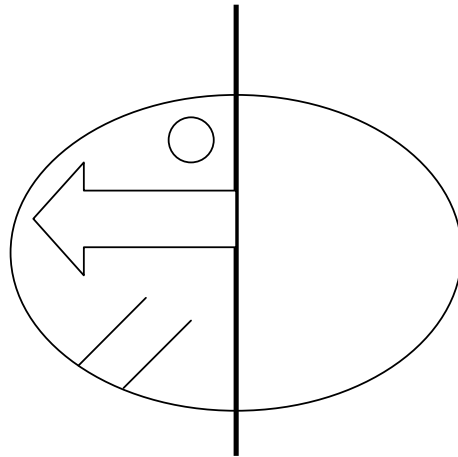
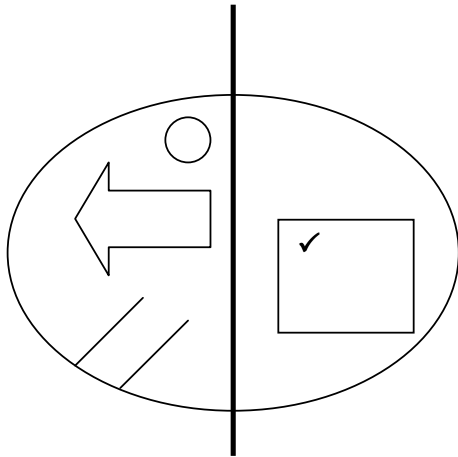
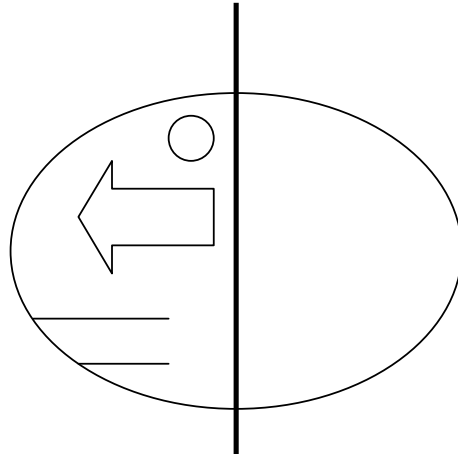
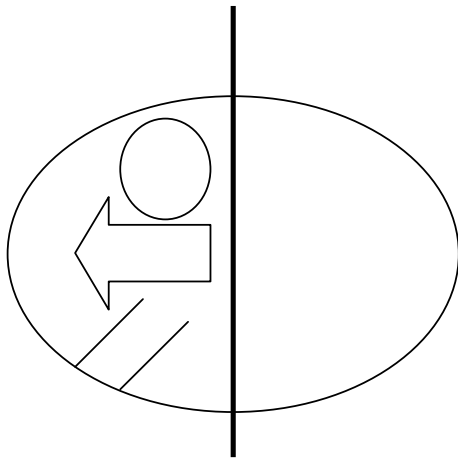


1 mark

3. Here is half of a symmetrical picture.

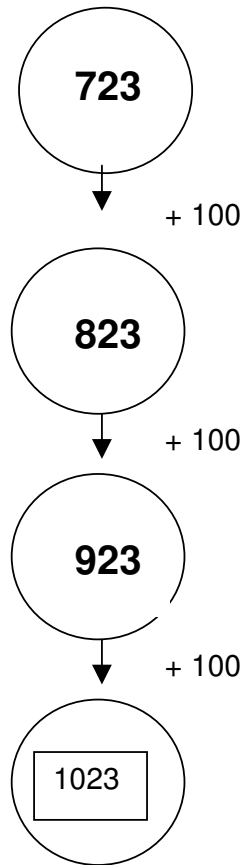


Which of these is the reflection of the picture?  
Put a tick (✓) beside it.



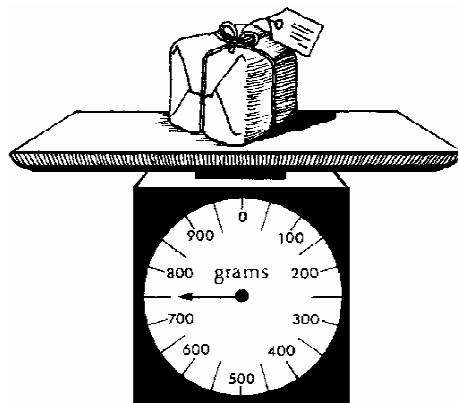
1 mark

4. Write in the missing number.



1 mark

5. How much does the parcel weigh?



750  
g

1 mark

6. Calculate  $148 + 38$

186
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1 mark

7. Write each letter in the correct place on the diagram.  
One has been done for you.

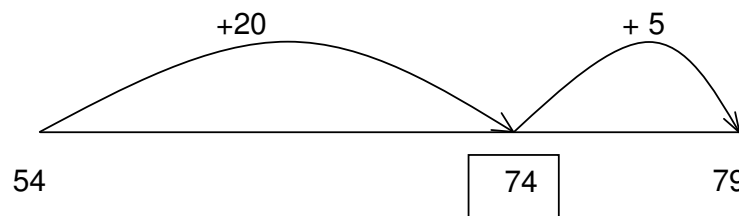
V      B      E      S

	<u>No</u> curved lines	Curved lines
<u>No</u> straight lines		S
Straight lines	V    E	B

1 mark for 2 letters correct, 2 marks for all correct

2 marks

8. Peter drew a number line to find the answer to  $54 + 25$



1 mark

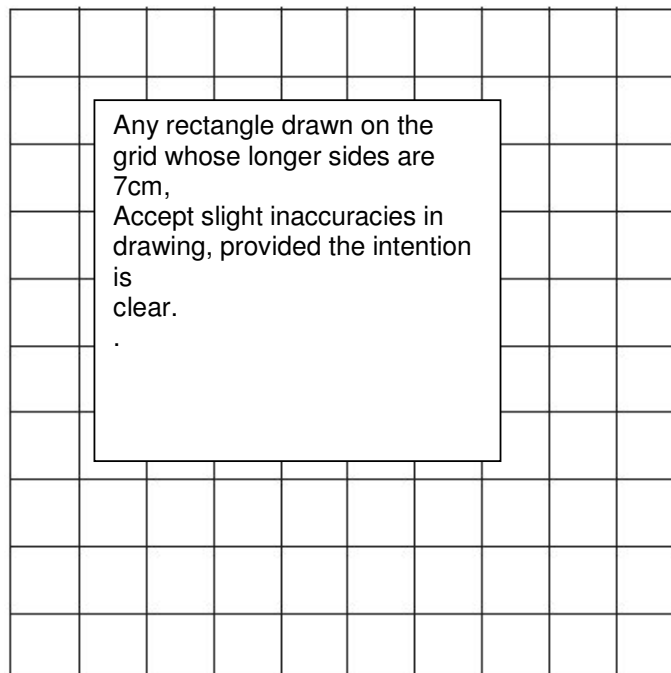
9. Jasmine has £8.50  
She wants to buy a game which costs £11.70  
How much more does she need to save?

£3.20

1 mark

10. Here is a centimetre grid.

Draw a rectangle whose longer sides are 7cm.



1 mark

11. Evie collects 4 toy animals each month for a year.

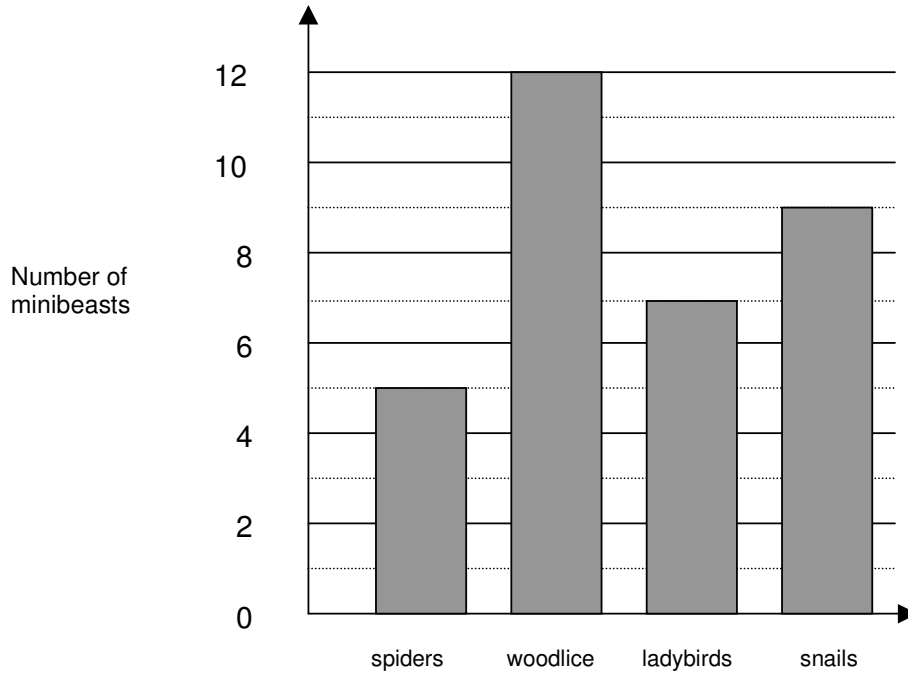


How many animals does she collect in a year?

48
----

1 mark

12. This graph shows the number of minibeasts found in a garden.



How many more woodlice than ladybirds were found?

5
---

Which two types of minibeast were there more than 8 of?

Snails and woodlice

2 marks

13. Here is a multiplication.

$$7 \times 10 = 70$$

Which division uses the same three numbers?

$70 \div 10 = 7$   
OR  
 $70 \div 7 = 10$   
OR  
 $7 = 70 \div 10$   
OR  
 $10 = 70 \div 7$

1 mark

14. Anna has a rod 17 cubes long.



She breaks it into two pieces.  
One piece is 1 cube longer than the other.  
How many cubes are in each piece?

and

accept reverse order

1 mark

15. Two of these sentences could be true.

Tick (✓) the two sentences that could be true.

Jack's pencil is 10 centimetres long.

Harry is 10 metres tall.

Bert's glass holds 10 litres of milk.

Martha's younger sister weighs 10 kilograms.

1 mark

16. Draw another line 4cm longer than this line.  
Use a ruler.

Line drawn correctly within 3 mm tolerance



1 mark

17. Calculate  $133 - 87$

46

1 mark

18. Here are two signs.



Use the signs to make these correct.

$$62 \quad \boxed{>} \quad 37$$

$$16 \quad \boxed{<} \quad 61$$

$$1 \quad \boxed{<} \quad 45$$

1 mark

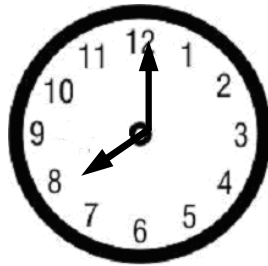
19. Add together 456 and 368

824

1 mark



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



start



finish

For how many minutes does the programme last?

45 minutes

1 mark

21. Draw an arrow (↓) 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  $2 \frac{3}{4}$  on the number line as long as the intention is clear.



1 mark

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

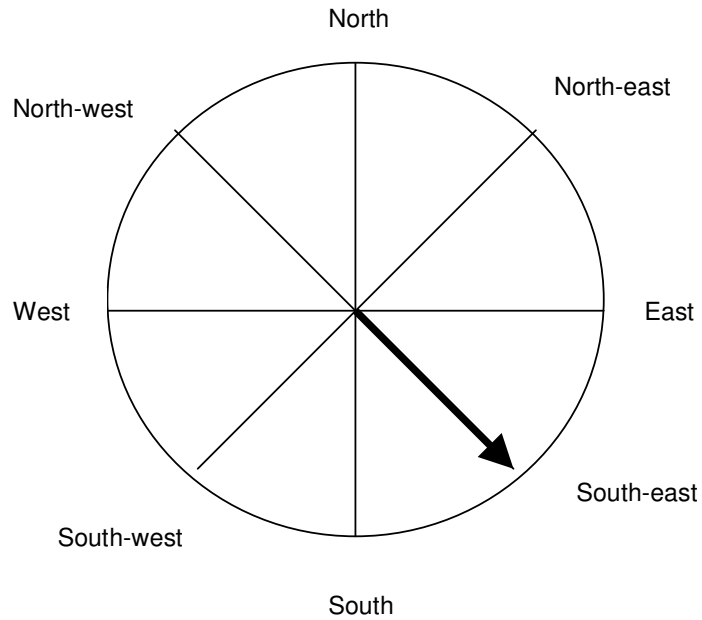
Show how you worked it out.

Award TWO marks for the correct answer of £2.70 Up to 2  
Accept £2.70p OR £2 70  
If the answer is incorrect, award ONE mark for evidence of appropriate working, eg  
 $45 \times 6 =$  wrong answer  
OR  
 $40 \times 6 = 240$   
 $5 \times 6 = 30$   
 $240 + 30 =$  wrong answer  
OR  
award ONE mark for £270 OR £270p OR £27.0 as evidence of appropriate working.  
An answer must be given for the award of ONE mark.

£ 2.70

2marks

23. 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

1 mark

Accept an unambiguous indication on the spinner.

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

$\frac{5}{7}$

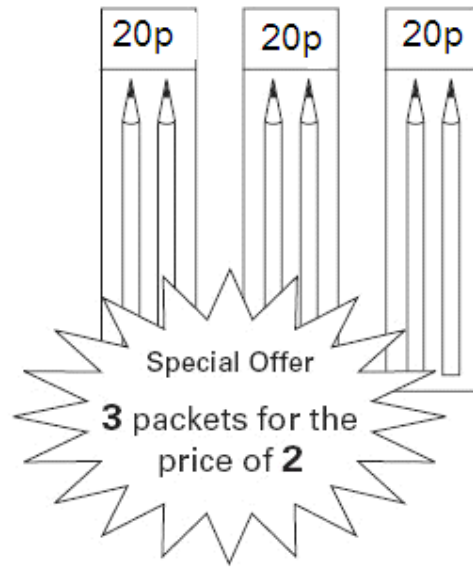
$\frac{2}{10}$

$\frac{1}{4}$

$\frac{8}{10}$

1 mark

25. 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.

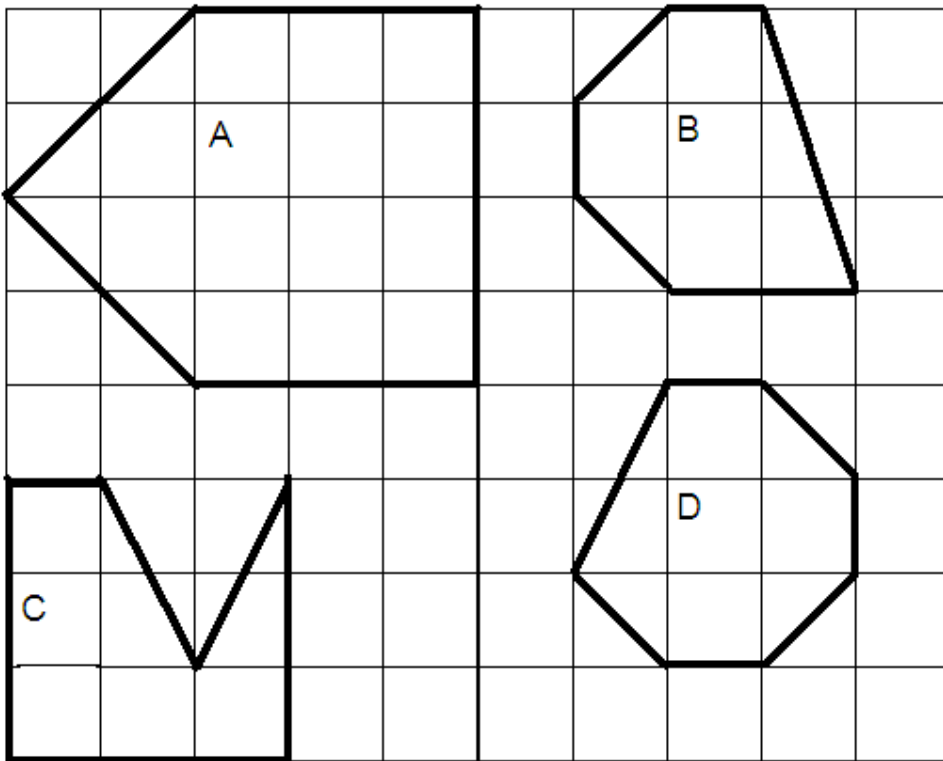
.....  
.....  
.....

Evidence shown that child knows that 3 for 2 is best deal with some explanation that 3 for 2 is 40p for 6 pencils and half price is 50p for 6 pencils.

.....  
.....  
.....

1 mark

26. 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

1 mark

27. Write in the missing digits

1	2	7	+	7	3	=	2	0	0
---	---	---	---	---	---	---	---	---	---

1 mark

28. 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
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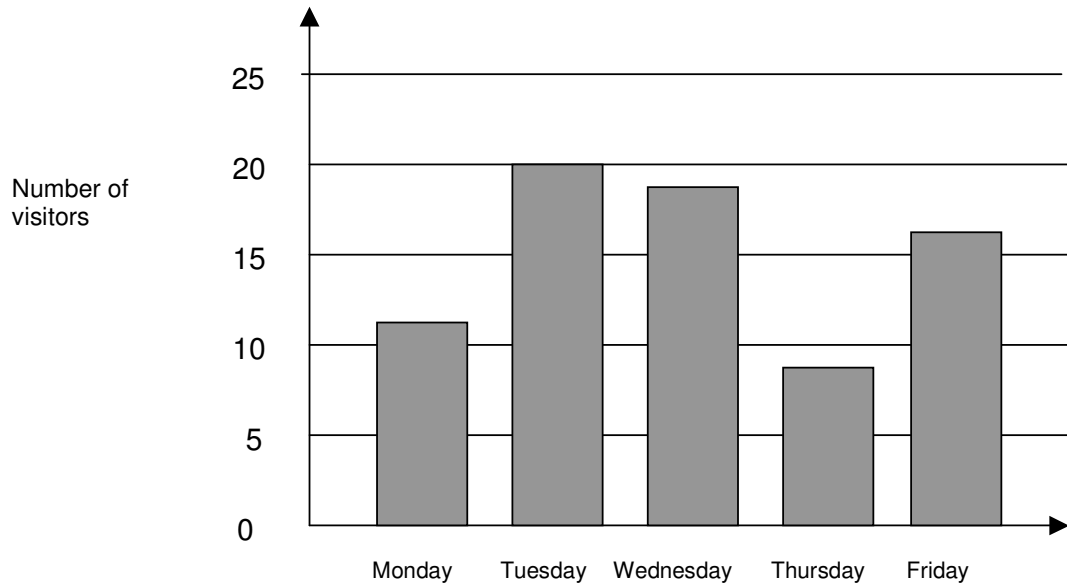
1 mark

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

Remainder 5
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1 mark

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



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

12

**1 mark**

31. Write in the missing number.

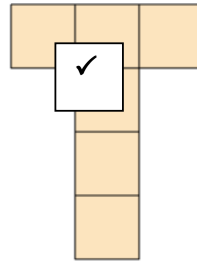
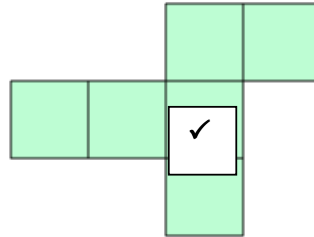
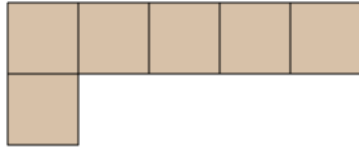
19

$$\times 3 = 57$$

**1 mark**

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

Put a tick ( ✓ ) in them.



1 mark