

Name _____ Date _____

2012 Year 3 Optional SATs Test

Mathematics

Paper B for assessing at levels 3 to 4. **Mark Scheme**

1. Calculate 23×3

69

1 mark

2. Write these numbers in order

230 203 233 223 260

203

223

230

233

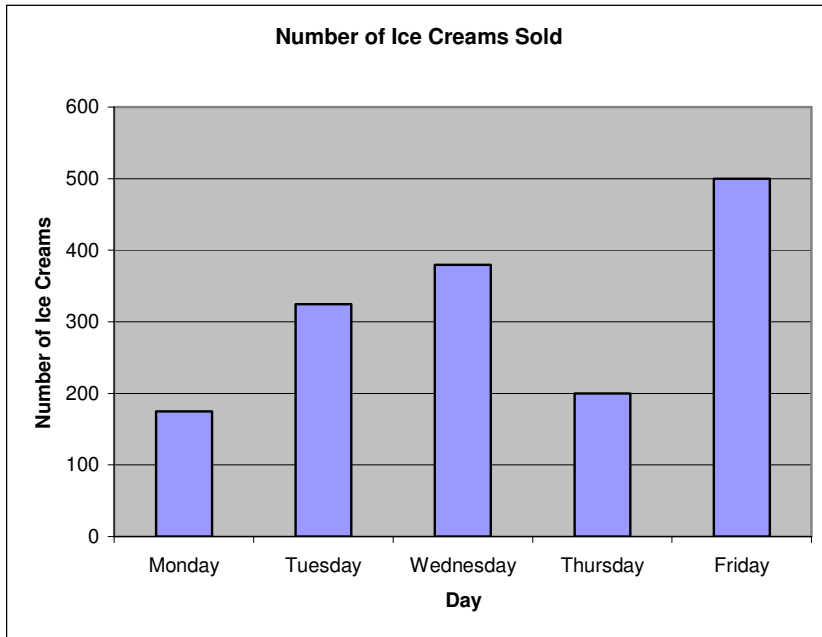
260

smallest

largest

1 mark

3. This graph shows the number of ice creams sold from Monday to Friday.



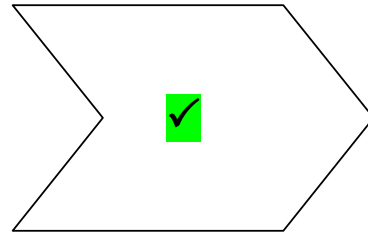
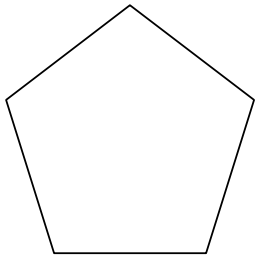
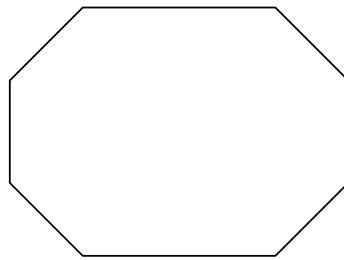
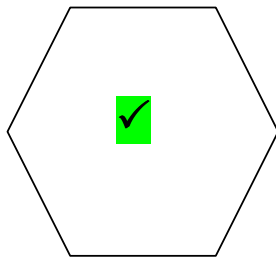
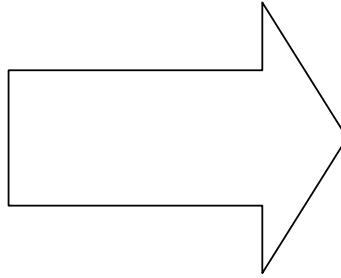
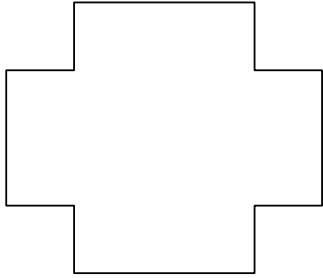
On which days were between 300 and 400 ice creams sold?

 Tuesday and Wednesday

1 mark

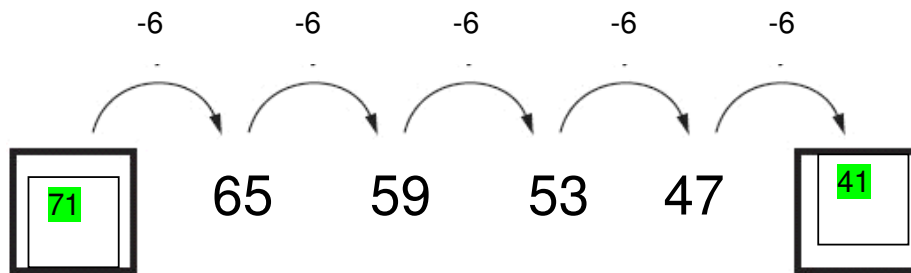
4. Here are some shapes.

Two of them are hexagons. Put a tick on the hexagons.



1 mark

5. Write the two missing numbers in this sequence.



1 mark

6. Jack has a jar half full of sweets. There are 85 sweets.



Estimate how many sweets Jack will have when the jar is full.

Circle the best estimate.

85

105

175

205

305

1 mark

7. Measure the line. Use a ruler.



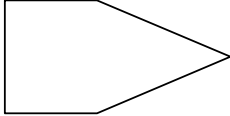

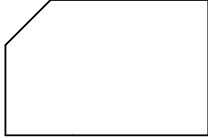

5.5 cm or 5 1/2 cm

1 mark

Allow 2 mm either way.

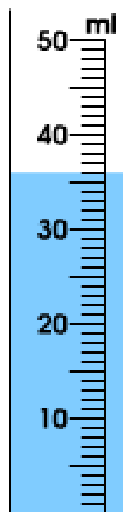
Also allow 55mm

8. Complete the table.

Shape	Number of right angles
	
	

1 mark

9. Here is a measuring cylinder.



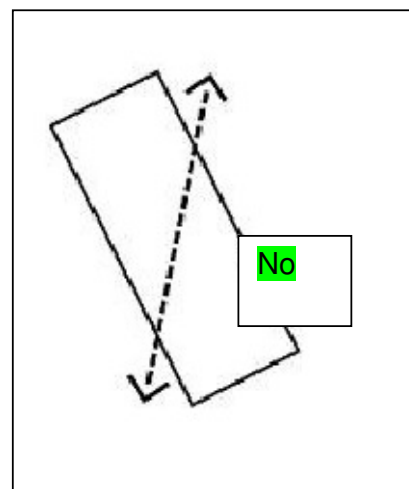
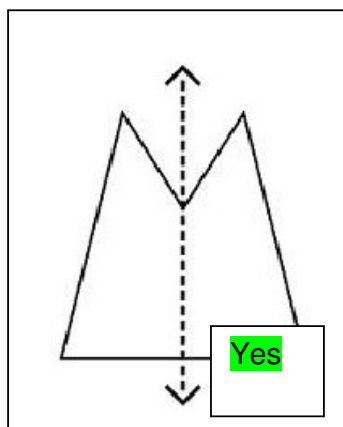
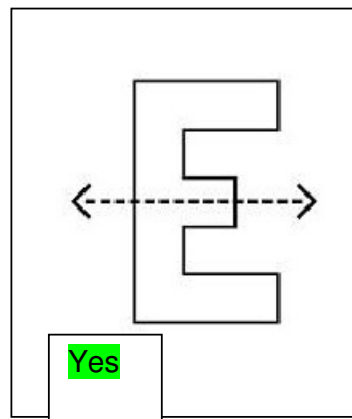
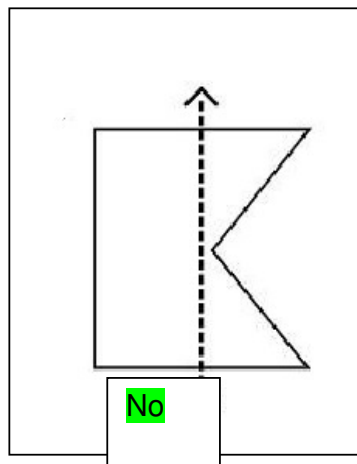
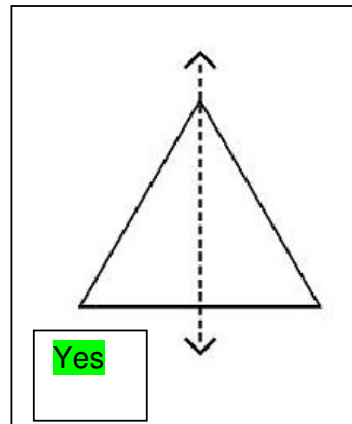
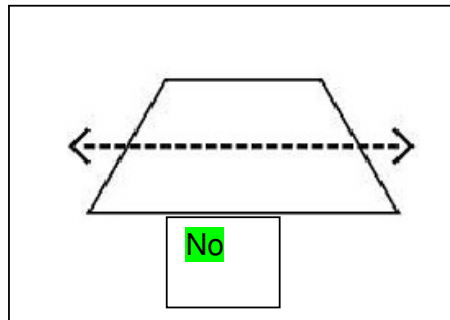
How much water is in it?

_____ **36** _____ ml

1 mark

10. Is the dotted line on each shape a line of symmetry?

Write yes or no on each shape.



1 mark

11. Emily has these digit cards.

5

1

8

She makes different 2-digit numbers with them.

Write all the two digit numbers she can make.

15 18 51 58 81 85

2 marks

12. 80 children voted for their favourite flavour crisps.

Favourite flavour crisps	Number of children
Cheese and Onion	18
Salt and Vinegar	17
Prawn Cocktail	13
Beef	12
Ready Salted	20
Total	80

Complete the table.

Now look at each sentence below.

Put a tick (✓) if it is true.

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

Six more children voted for the Salt and Vinegar than for Beef.

Ready Salted crisps were more popular than Cheese and Onion.

$\frac{1}{4}$ of the children voted for Ready Salted.

2 marks

13. Lucy saved five 10p coins and fifteen 5p coins. How much money did she save?

2 marks for correct answer of £1.25
An answer must be given for the award of ONE mark.
1 mark for appropriate working but incorrect answer

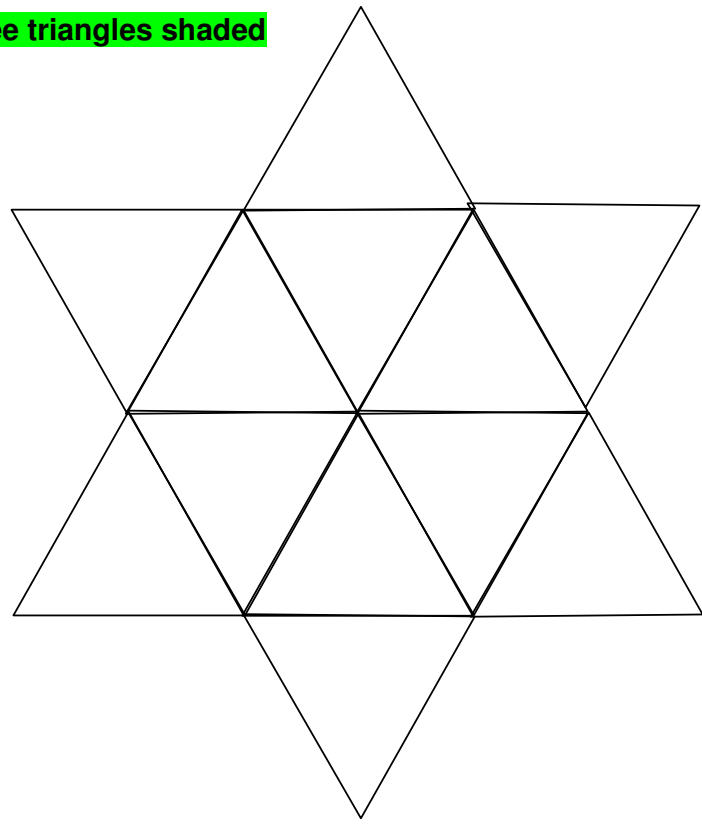
Show how you worked it out.

£ 1.25

2 marks

14. Shade a quarter of this shape.

Any three triangles shaded



1 mark

15 Write in the missing number.

$$230 + \boxed{220} + 50 = 500$$

1 mark

16. Circle the two fractions which have the same value.

$\frac{3}{5}$

$\frac{1}{2}$

$\frac{3}{4}$

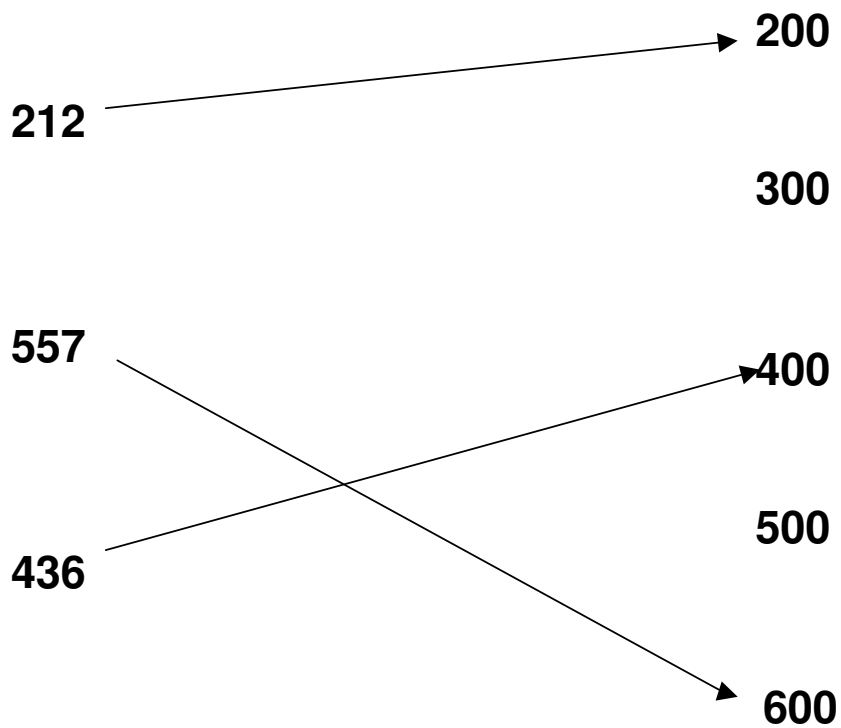
$\frac{2}{7}$

$\frac{3}{6}$

1 mark

17. Round each number to the nearest 100

One is done for you.



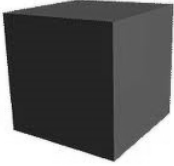

1 mark

18. Write in the missing digits.

$$\boxed{8}5 - 5\boxed{8} = \boxed{2}\boxed{7}$$

1 mark

19. Complete the table.

	Number of faces	Number of edges
 cube	6	12
 triangular prism	5	9

1 mark

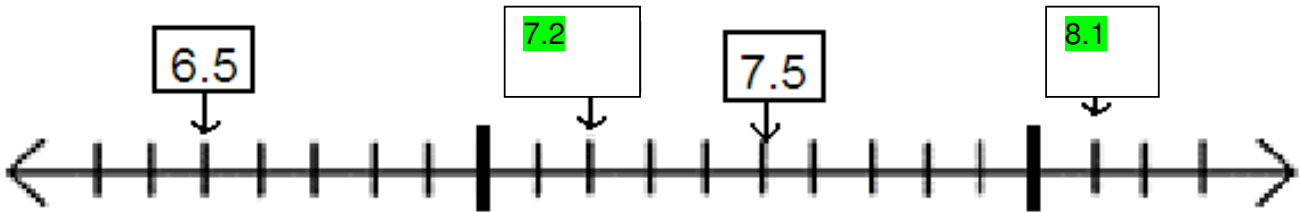
20. Calculate $238 + 587$

825

1 mark

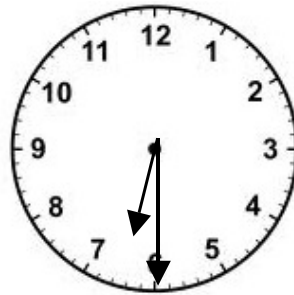
21. Here is part of a number line.

Write in the numbers missing from the two empty boxes.

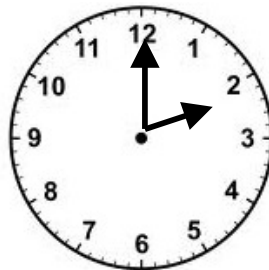


2 marks

22. Joe woke up at this time in the morning.



When he looked at his watch, it was this time in the afternoon.



How long had he been awake?

7 hours 30 minutes

1 mark

23. Write in the missing number.

$$\boxed{68} \div 4 = 17$$

1 mark

24. A class of 21 children had 140 pencils at the beginning of the year.

9 children used 5 pencils each.

12 children used 7 pencils each.

How many pencils are left at the end of the year?

2 marks for correct answer of 11.

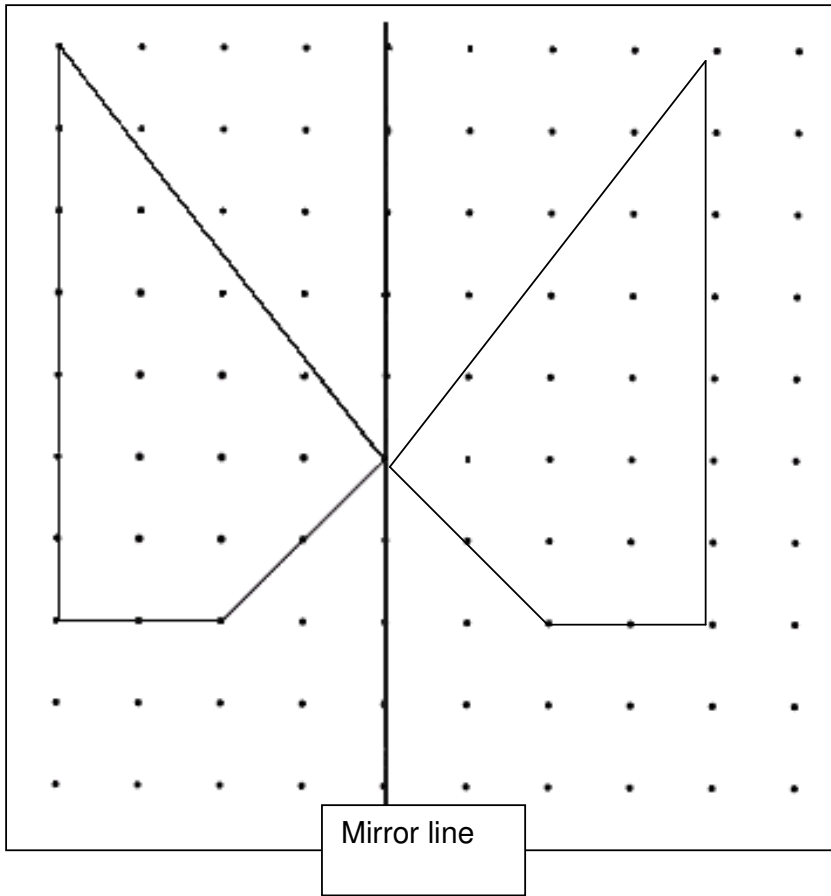
1 mark for appropriate working but incorrect answer

Show how
you worked
it out.

11 pencils

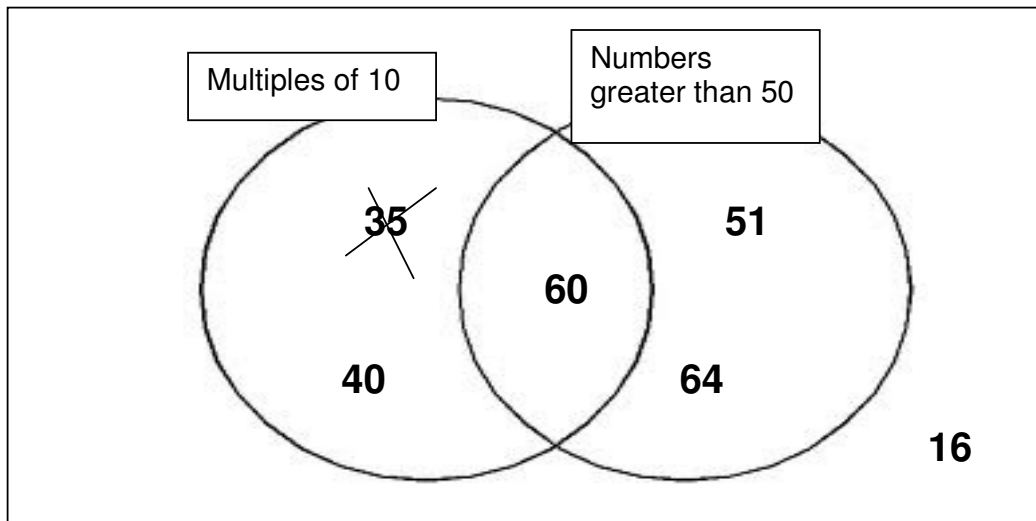
2 marks

25. Draw the reflection of this shape. **Completed as below**



1 mark

26. One number is in the wrong place on the sorting diagram.
Put a cross (x) on it.



1 mark

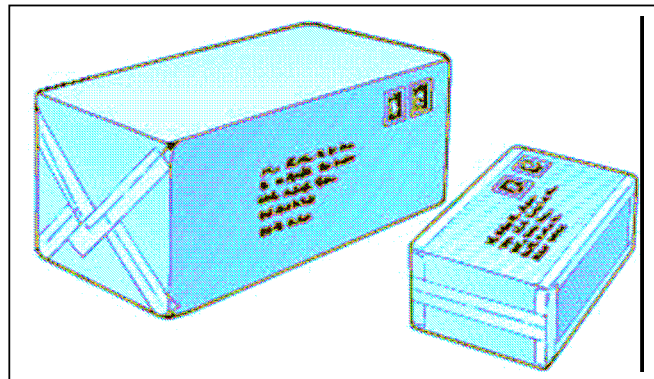
27. Calculate $246 - 158$

88

1 mark

28. It cost Charlotte £5.56 to post two parcels.

One parcel cost £2.74 to post.



How much does the other parcel cost to post?

£2.82

1 mark

29. This jug holds half a litre when it is full. Alice fills it with juice as shown in this picture.



Tick the approximate amount of juice in the jug.

10ml

100ml

400ml

800ml

1 mark