Name_____ Date_____

# 2012 Year 3 Optional SATs Test

## Mathematics

## Paper A for assessing at levels 2 to 3

## Mark Scheme

1. **Calculate 34 + 15**

49

**1 mark**

2. **One of these numbers does not belong in this set.**
**Cross ( x ) out the number that does not belong.**

**Even Numbers**

**22**

**16**

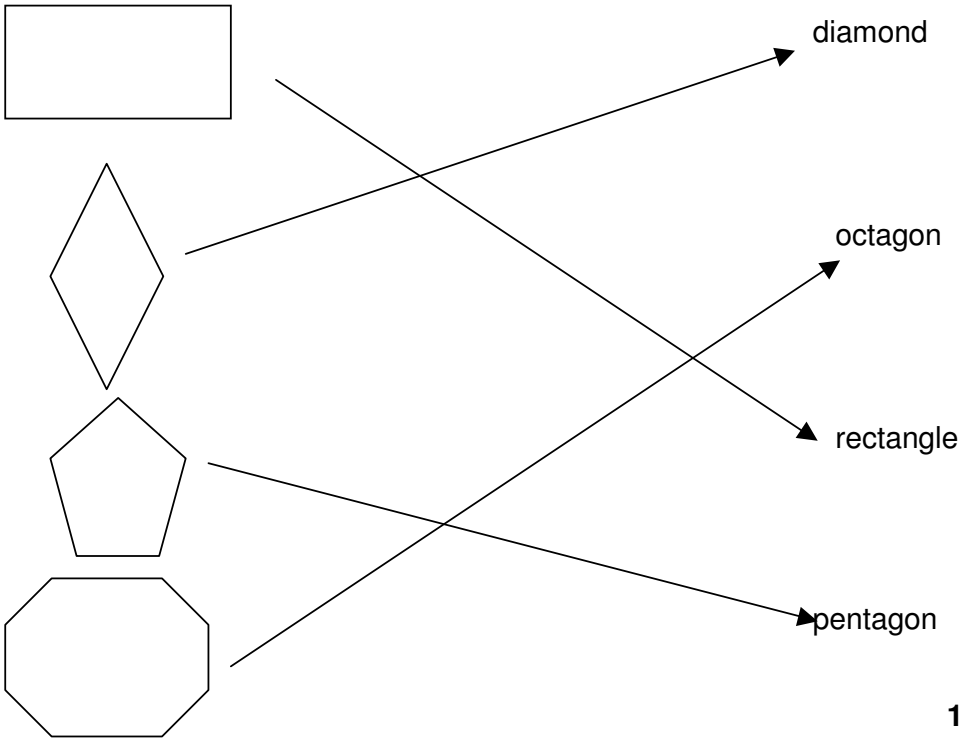
**13**

**8**

**10**

**1 mark**

**3.** **Match each shape to its name.**
**One is done for you.**




**1 mark**

**4. Some children share 15 marbles .**

**Each child gets 5 marbles. How many children are there?**

3 children

**1 mark**

**5.** **Emma wants to buy a packet of mints.**
**She gives the shopkeeper 36 pence**
**The shopkeeper says, 'You need 14 pence more to buy the mints. '**
**How much do the mints cost?**

50 pence

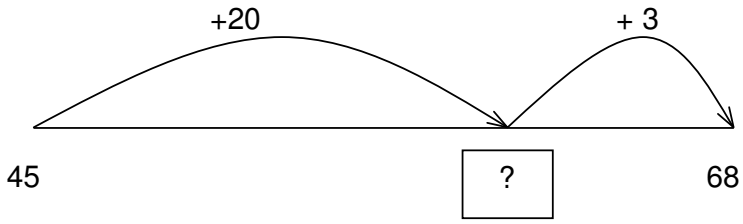
**1 mark**

**6.** **Calculate 48 - 26**

22

**1 mark**

**7.** **Thomas drew a number line to help him find the answer to 45 + 23.**



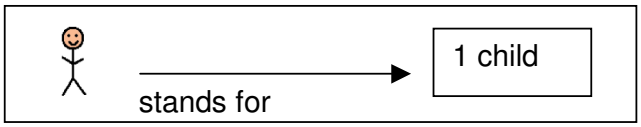

What number is hidden under the card?

65

**1 mark**

**8.** **Some children in Class 3 are in clubs.**

**The table shows the club they are in.**




| Club | Number of children |
|---|---|
| Rounders | |
| Art | |
| Dance | |

**How many <u>more</u> children go to rounders than dance?**

4

**The graph should show the same <u>data</u> as the table.**

**Shade in the correct number of blocks for the art club.**

**The club we are in**

**Chart completed as here.**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Rounders** | | | | | | | |
| **Art** | | | | | | | |
| **Dance** | | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |

**2 marks**

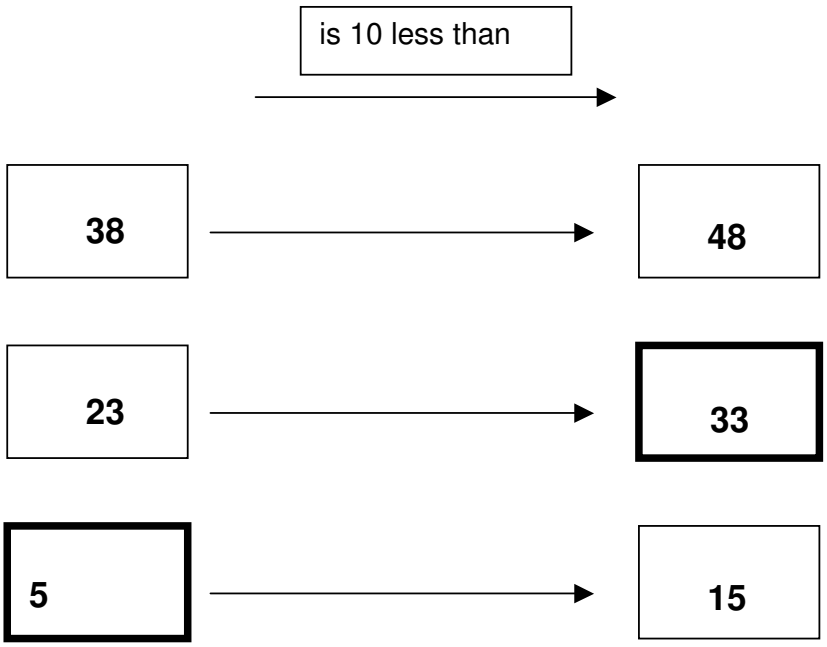
**9.** **Two of these numbers round to 60.**

**Circle the <u>two</u> numbers.**

**54** **62** **57** **65**

**1 mark**

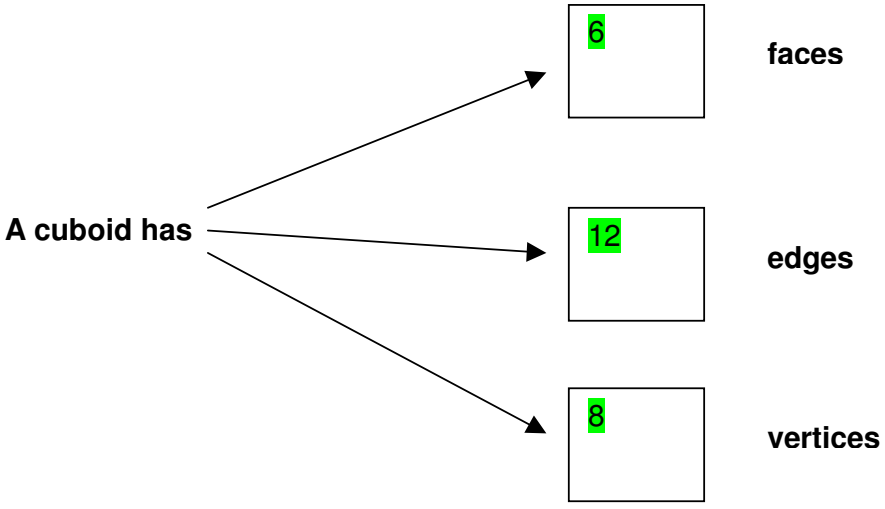
**10. Write the missing numbers in the empty boxes.**




**2 marks**

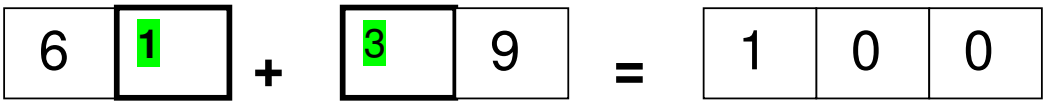
**11. Write the correct number in each box.**

**12** **8** **6**




1 mark

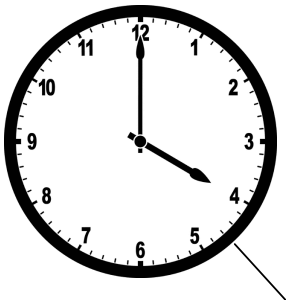
**12. Write in the missing digits.**

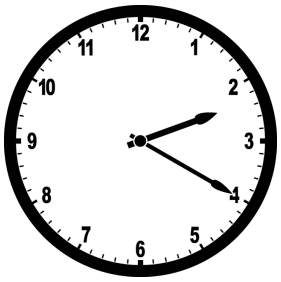



**1 mark**

**13.** **Match the clocks to the correct time.**

**One has been done for you.**





2.20

11.45

4.00

6.30

**1 mark**

**14.** **Harry and Bert are counting their toy cars.**

**Harry has 50 cars.**

**Bert has 19 cars.**

**How many more cars does Harry have than Bert?**

31 cars

**1 mark**

**15.** **Write these numbers in order**

230 203 233 223 260

| 203 | 223 | 230 | 233 | 260 |
|---|---|---|---|---|

**smallest** **largest**

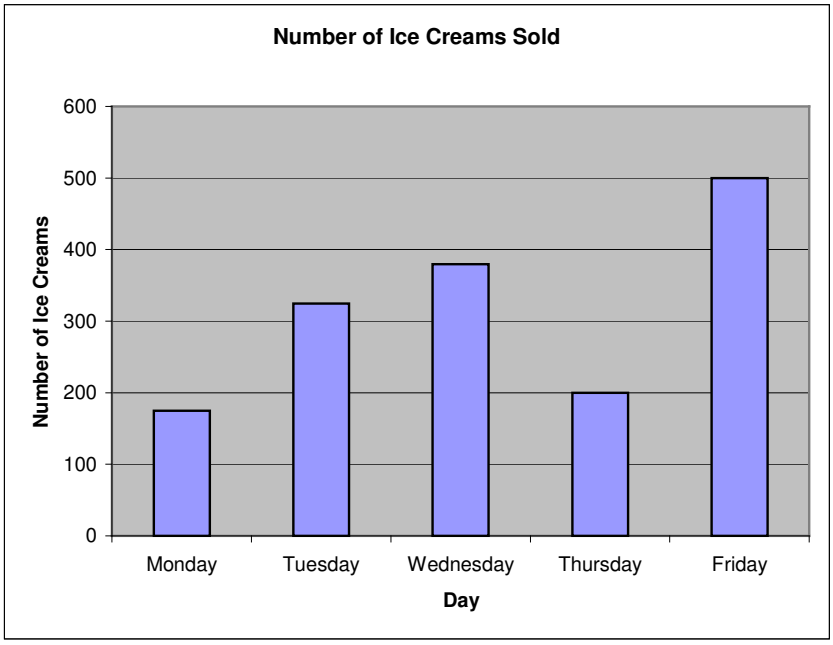
**1 mark**

**16. Calculate 23 x 3**

69

**1 mark**

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



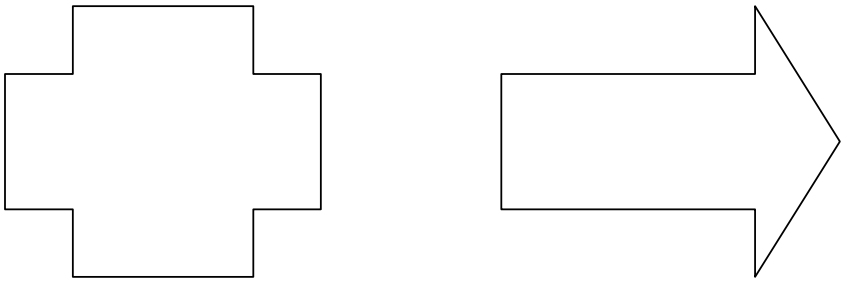

**On which days were between 300 and 400 ice creams sold?**

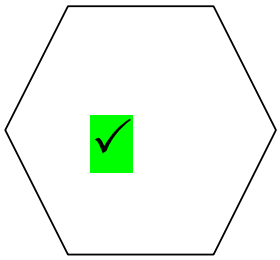
_____**Tuesday**_____**and** _____**Wednesday**_____

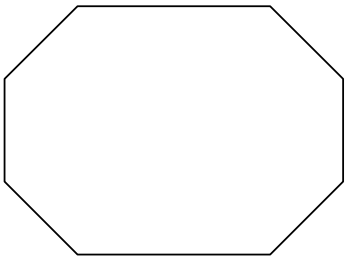
**1 mark**

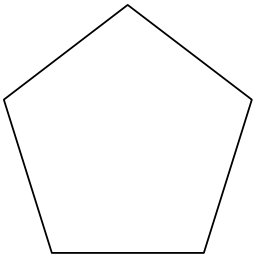
**18. Here are some shapes.**

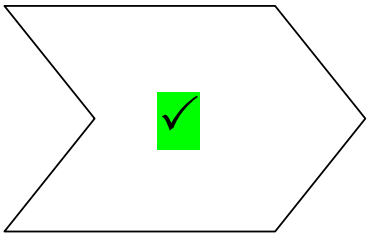
**Two of them are hexagons. Put a tick on the hexagons.**





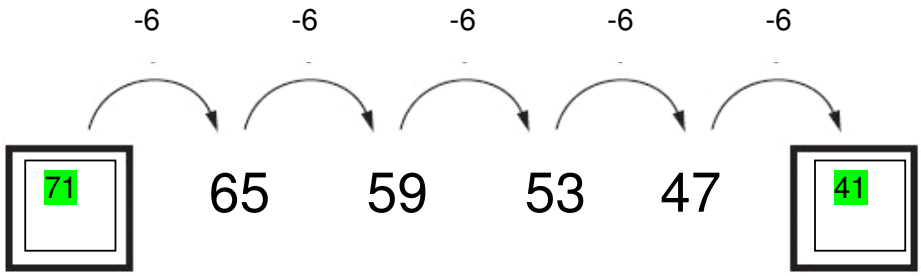








**1 mark**

**19. Write the two missing numbers in this sequence.**




**1 mark**

**20. Jack has a jar <u>half full</u> 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**

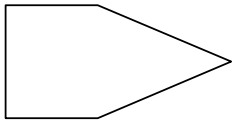
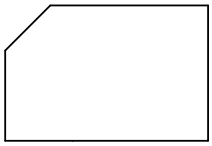
**21. Measure the line. Use a ruler.**

5.5 cm or 5 ½ cm

**Allow 2 mm either way.**
**Also allow 55mm**

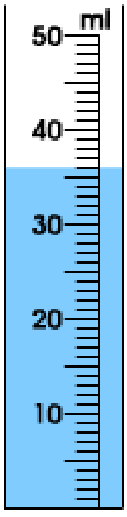
**1 mark**

**22. Complete the table.**

| Shape | Number of right angles |
|---|---|
|  | 2 |
|  | 3 |

**1 mark**

**23. Here is a measuring cylinder.**



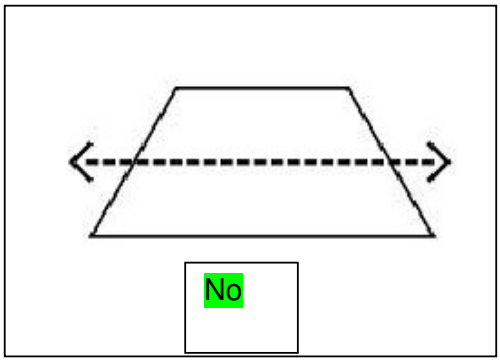

**How much water is in it?**

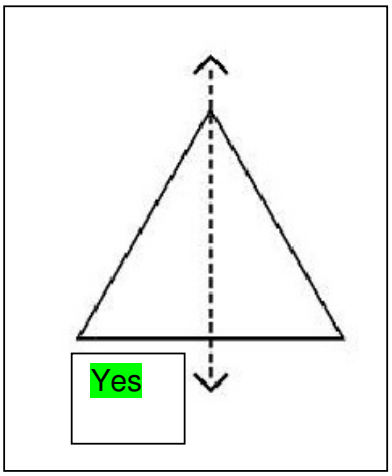
36 ml

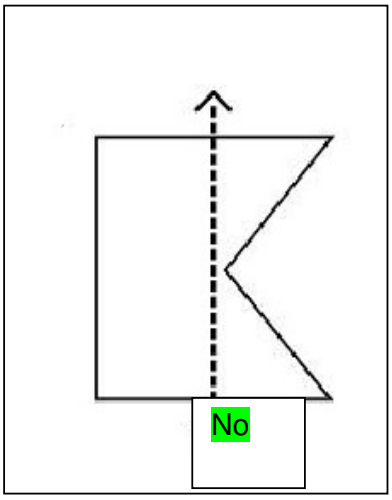
**1 mark**

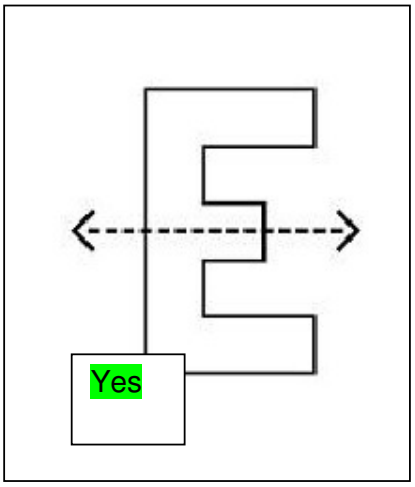
**24. Is the dotted line on each shape a line of symmetry?**

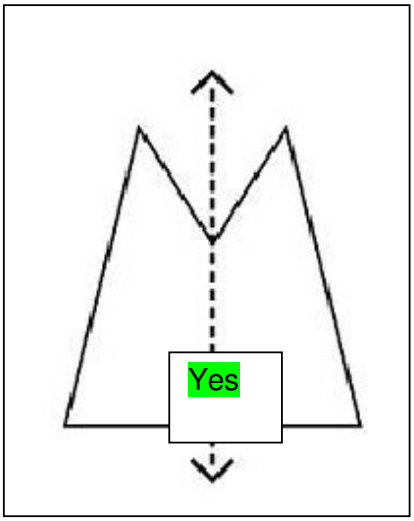
**Write yes or no on each shape.**

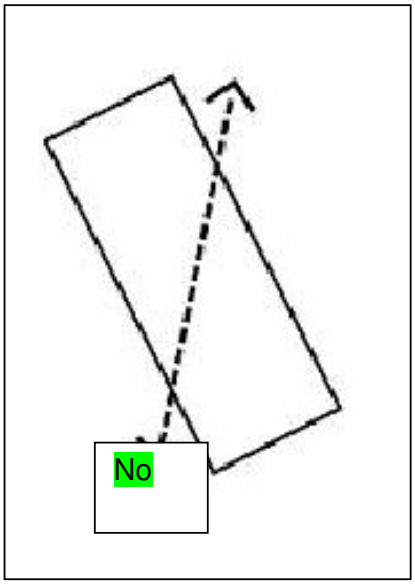


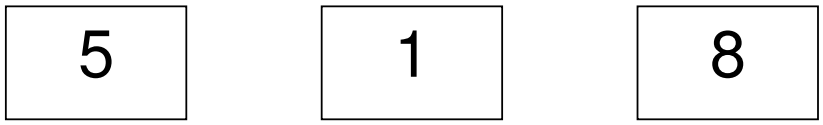




**1 mark**

**25. Emily has these digit cards.**




**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**

**26. 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 if it is not true.**

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

**Ready Salted crisps were more popular than Cheese and Onion.** ✓

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

**2 marks**

**27. 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

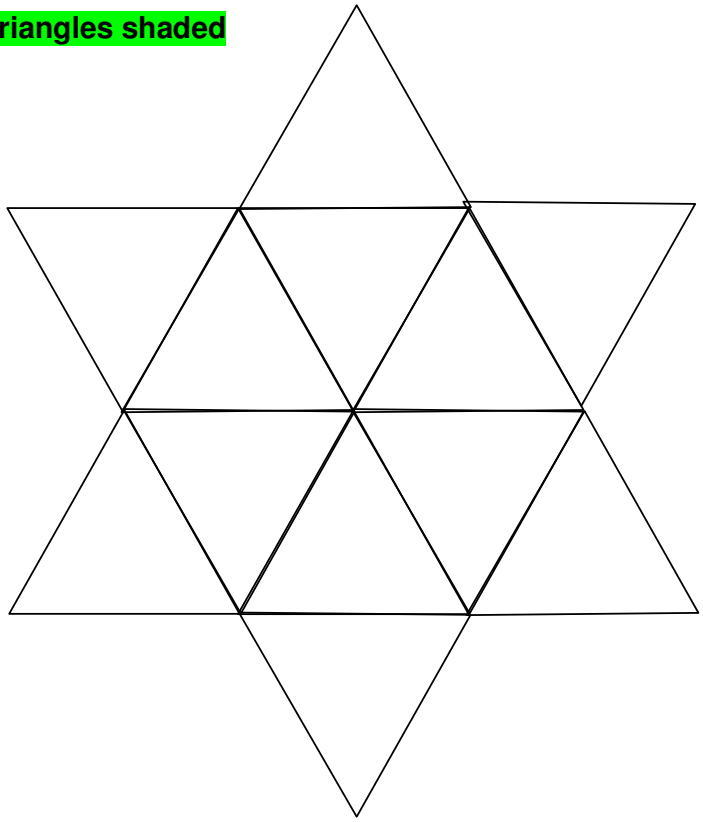
Show how you worked it out.

£ 1.25

**2 marks**

**28. Shade a quarter of this shape.**

**Any three triangles shaded**



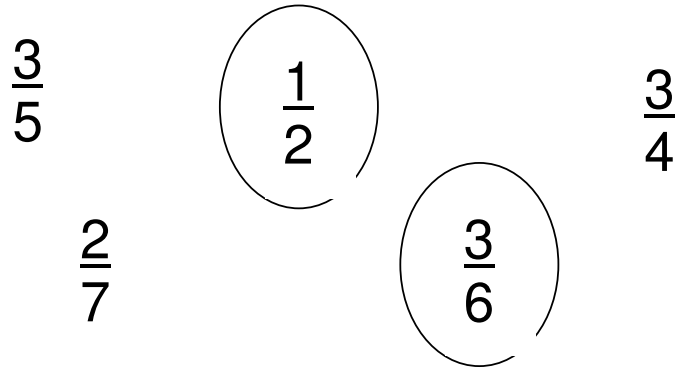
**1 mark**

**29. Write in the missing number.**

**230 + [220] + 50 = 500**

**1 mark**

**30. Circle the <u>two</u> fractions which have the same value.**




**1 mark**