

Maths

**Key
Stage 2**

**Levels
3-5**

PE

Maths Star


First Name: _____

Last Name: _____

School: _____


Test A – Non Calculator

- ✓ You have 45 minutes for this test.
- ✓ If you cannot do one of the questions, move on to the next one and can come back to it later, if you have time.
- ✓ If you finish before the end, go back to check your work.
- ✓ You **MUST NOT** use a calculator.

The pencil:  shows where you should write your answer.
You can do your working out anywhere on the page.

Sometimes you will get a box:

Show your working:



You might get a mark for showing your working out.

1) Put these prices in order from smallest to largest:

£4.05 £4.50 45p £4.55 £0.54



1
mark

2) Suzanne has 4 cards:

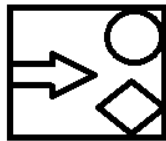


Put her cards in the correct order to complete the sum:

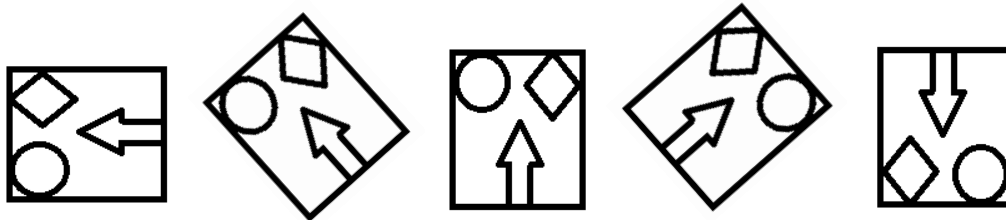
$$\square \square - \square \square = 45$$

1
mark

3) Mark has a patterned tile:




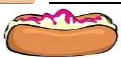



Circle the tile that is NOT the same as Mark's tile.

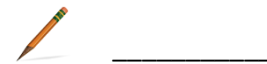


1
mark

4) Amrita and Suzanne went to Al's Café. This is the list of prices:

Cup of Tea		£1.50
Cup of Coffee		£1.70
Hot Chocolate		£2.10
Cream Cake		£2.30
Muffin		95p


a) Amrita has £3.00 to spend. She buys a cup of coffee and a muffin. How much change will she receive?



1
mark

b) Suzanne buys a cup of tea and a cream cake. How much more has Suzanne paid than Amrita?

Show your working:



2
marks

5) The rule for this pattern is:

*To make the number in the circle:
Find the difference between the numbers in the 2 squares before it*

Complete the 3 missing numbers:



2
marks

6) Below is a table showing the different amounts of reptiles at a zoo in 2009 and 2010:

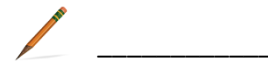
	2009	2010
Snakes	14	17
Lizards	19	24
Geckos	12	15
Turtles	7	13

a) How many more lizards were there than turtles in 2009?



1
mark

b) Which type of reptile had the biggest increase in numbers?



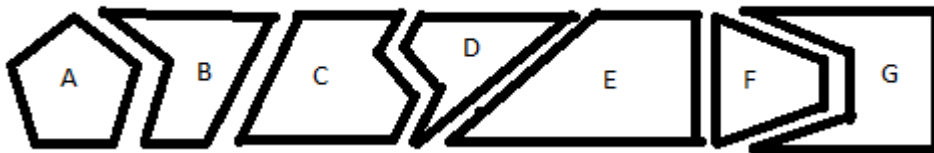
1
mark

7) Work out:

$834 - 217 =$

1
mark

8) Michael has some concrete blocks for his crazy paving:



a) List all the letters of the blocks that are quadrilaterals.



1
mark

b) List all the letters of the blocks that are pentagons.



1
mark

9) Circle all the shapes with $\frac{2}{3}$ shaded.



1
mark

10) Below is a bar chart of the favourite football teams of children in Year 5 at Ben's school:



a) How many students liked a football team from Manchester?



1
mark

b) 2 more children joined Year 5 at Ben's school. They both like Arsenal. Complete the bar chart to include the 2 new children.

1
mark

11) Work out:

$445 \times 6 =$

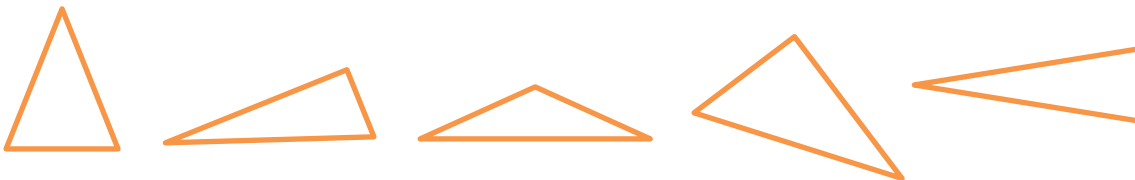
1
mark

12) Melanie says that all the factors of 8 are even numbers. Is she correct?

Explain:

1
mark

13) Circle the ISOSCELES triangles:



1
mark

14) Choose two of the following tiles to complete the equation.

- 0.51 0.23 0.35 0.37 0.64 0.41

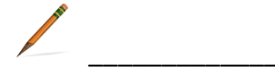
$\square + \square = 0.76$

1
mark

15) Ben has a fair spinner with the numbers 1 to 6.

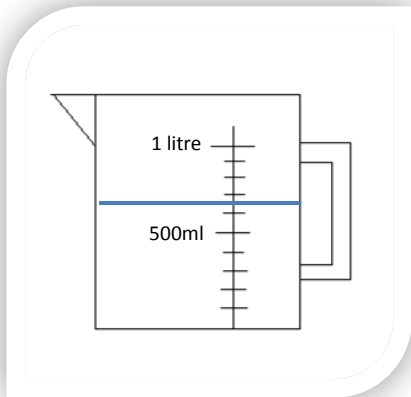


What is the probability that he will land on an even number?

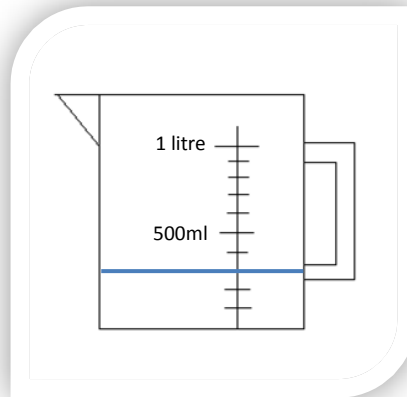


1
mark

16) Maria had a jug of milk (A). She poured some on cereal at breakfast and was left with (B).

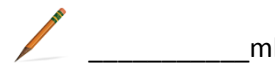


A



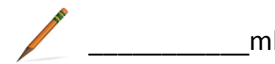
B

a) How much milk did Maria use on her cereal?



1
mark

b) Maria needs 425ml of milk for a recipe. How much milk does she need to add to the jug?



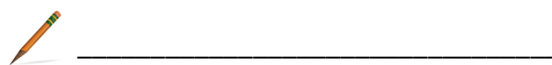
1
mark

17) Fill in the blanks to make the equation work. All numbers must be ODD and LESS THAN 20.

$$\boxed{} - \boxed{} + \boxed{} = \boxed{27}$$

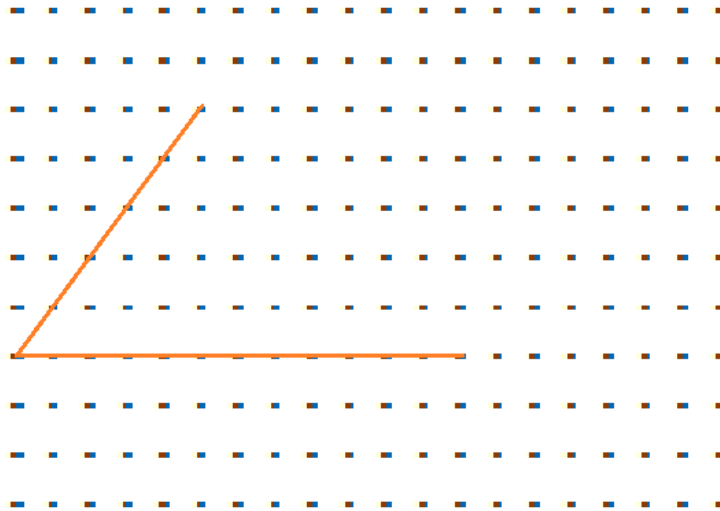
1
mark

18) Write all the numbers between 30 and 50 that are MULTIPLES of 4.



2
marks

19)

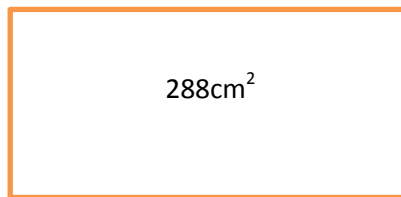


Complete the grid with two straight lines to make a parallelogram.



2
marks

20) Matthew has some squares of coloured glass with sides of 6cm. He needs to fill in a window with an area of 288cm^2 .



How many square of glass does he need to complete the window?

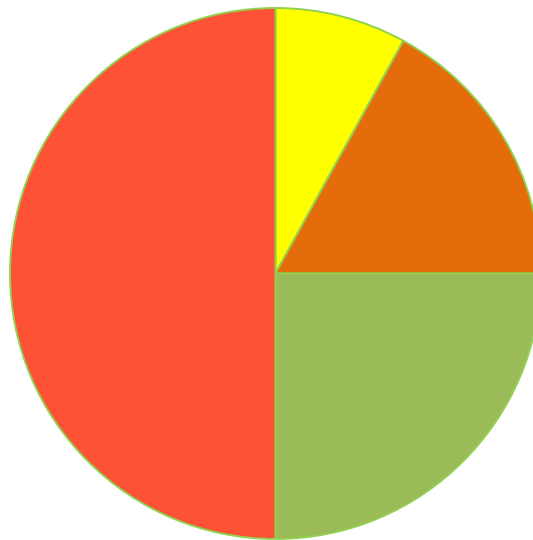
Show your working:



2
marks

21) The chart below shows the favourite fruits of a group of children.

Favourite Fruits



- Pineapples
- Oranges
- Apples
- Strawberries

a) What percentage of the people preferred apples?

1
mark

b) If 25 people asked preferred apples, how many people preferred strawberries?

1
mark

22) a) Write $\frac{3}{4}$ as a percentage:

1
mark

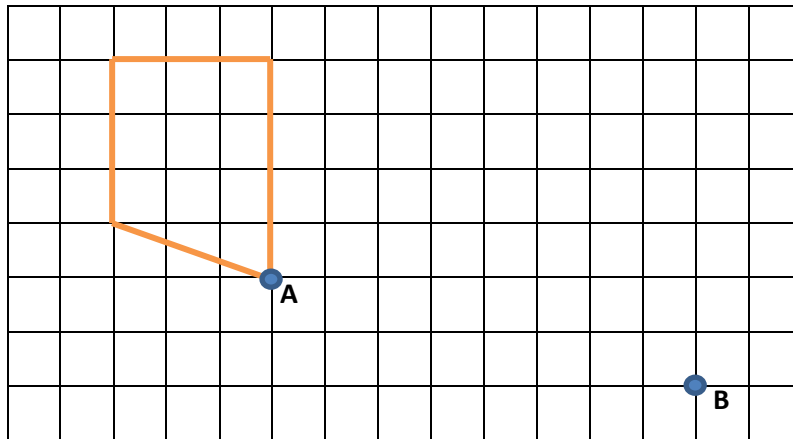
b) Write 0.7 as a fraction:

1
mark

23) $12 \times \square = 1440$

1
mark

24) If point A on the shape is moved to point B, draw the rest of the shape in its new position.



2 marks

25) Lucy's Mum gave her a bag of marbles.

Lucy lost 2 of the marbles. She gave $\frac{1}{2}$ of the rest of the marbles to Suzie to play with. Suzie gave $\frac{1}{3}$ of the marbles Lucy gave her to Adam. Adam got 7 marbles.

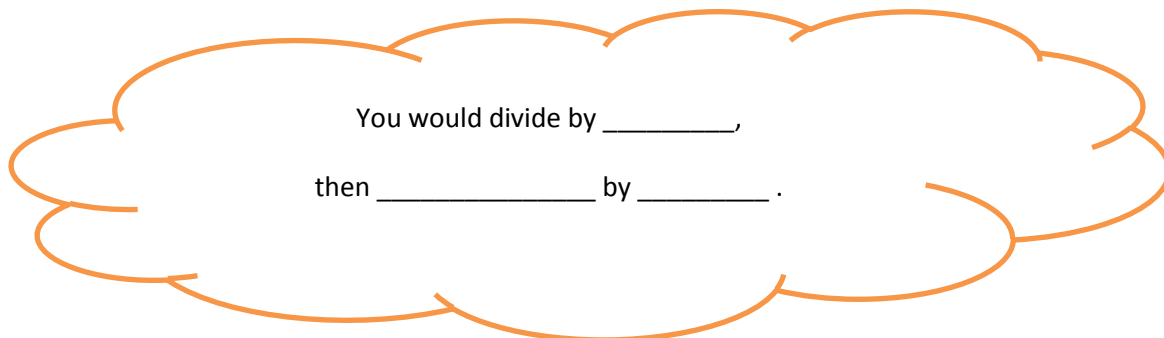
How many did Lucy have to start with?

Show your working:



2 marks

26) If you know what $\frac{2}{3}$ of a number is, explain how you would find the original number.



1 mark

----- **END OF TEST** -----

TOTAL
out of
40