

**YEAR**

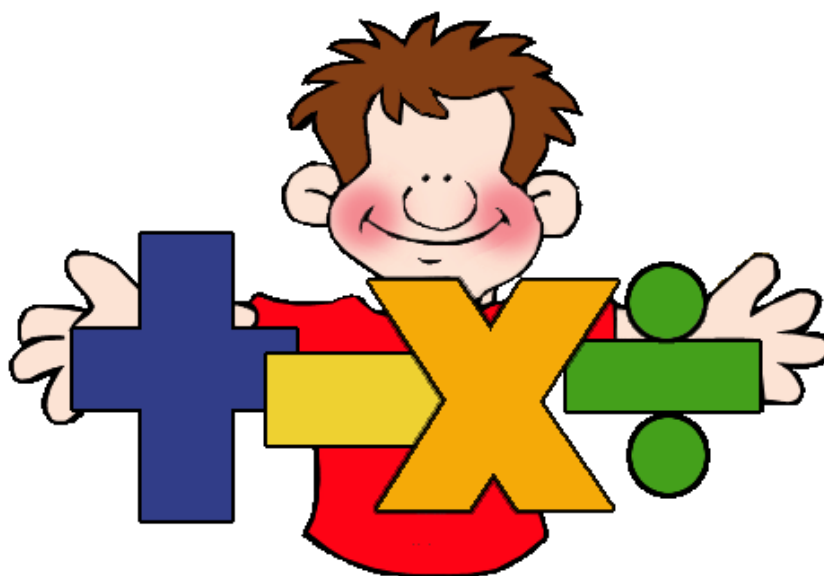
**MATHEMATICS**

**TIME: 1hr 15min**

<b>Mental Mathematics Mark</b>	
<b>Main Paper Mark</b>	
<b>Total Mark</b>	

**READ CAREFULLY:**

- **WORK OUT ALL THE QUESTIONS.**
- **SHOW ALL YOUR WORKING.**
- **WRITE YOUR ANSWER CLEARLY.**



a.  21      b.      X 4

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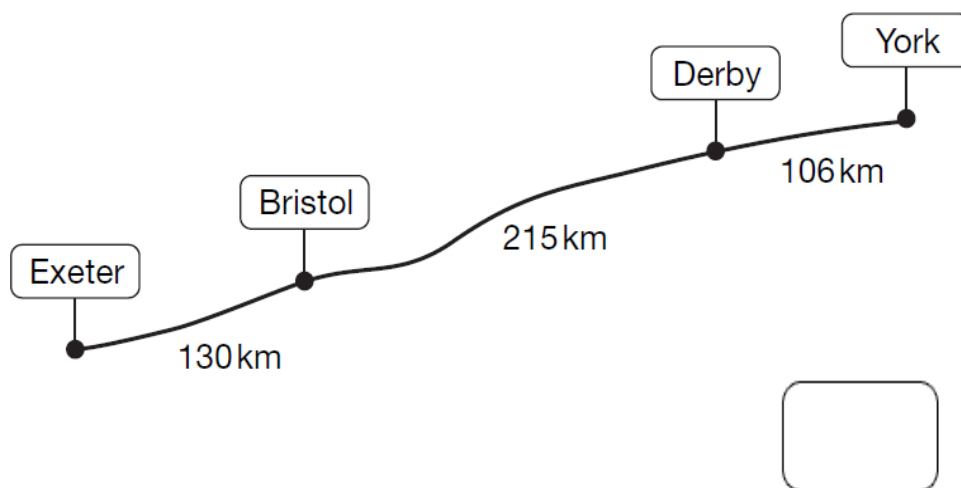
c.    225 -  ÷ 150      d.    - 73 :

36      28      24           

84            87            72            76            90

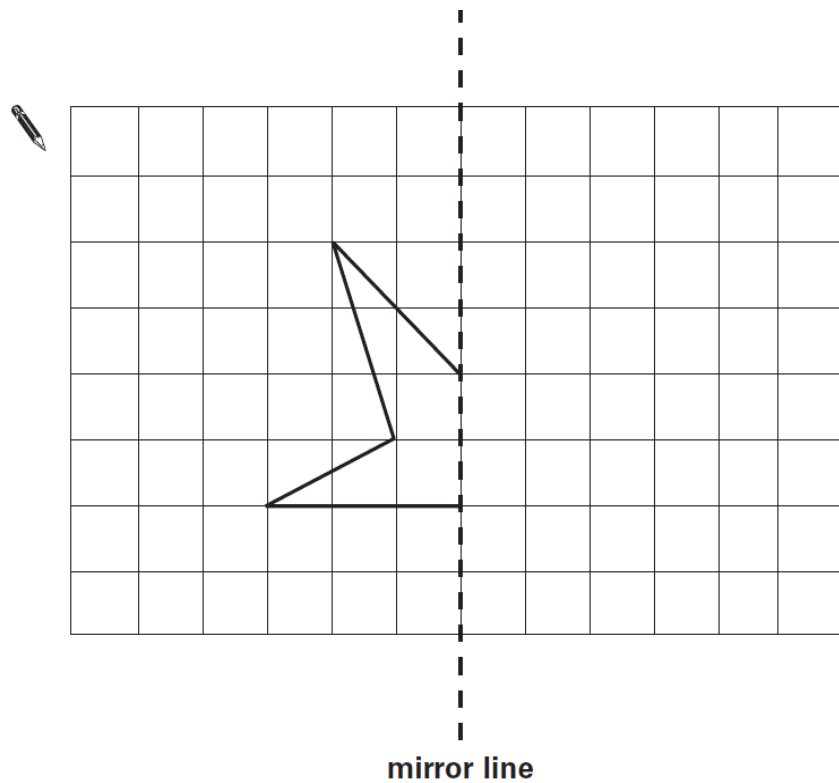
60

- 4 (b) The diagram shows distances on a train journey from Exeter to York. How many kilometres is it altogether from Exeter to York.

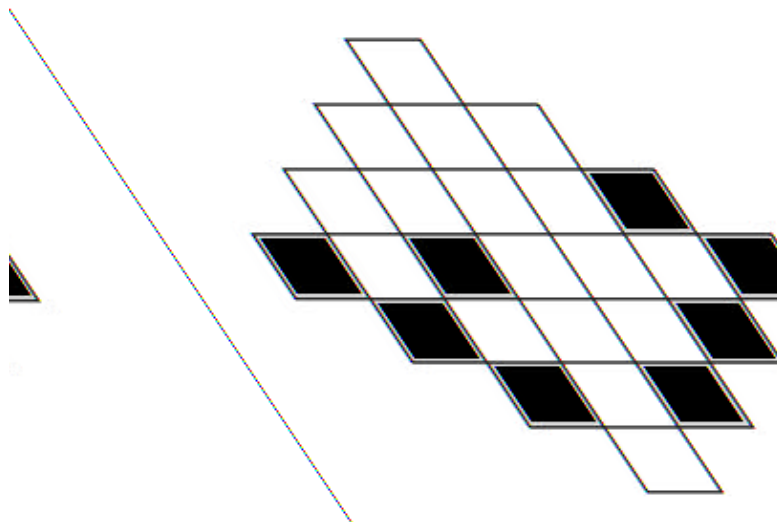


5. (a) Complete the diagram below to make a shape that is symmetrical about the mirror line.

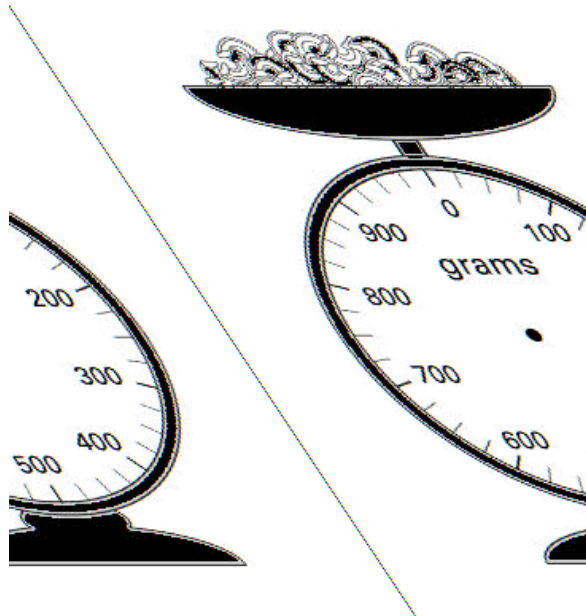
Use a ruler.



- 5(b) Here is a grid with eight squares shaded in.  
Shade in **two more squares** to make a symmetrical pattern.



- 6 (a) Tom is cooking pasta. He weighs 350 grams of pasta.  
Draw an arrow on the scale to show 350 grams.



- 6 (b) A packet contains 1.5 kilograms of guinea pig food.  
Tom feeds his guinea pig 30 grams of food each day.

How many **days** does the packet of food last?




- 7 (a) Karen makes a fraction using her number cards.  
She says, ‘**My fraction is equivalent to  $\frac{1}{2}$** ’



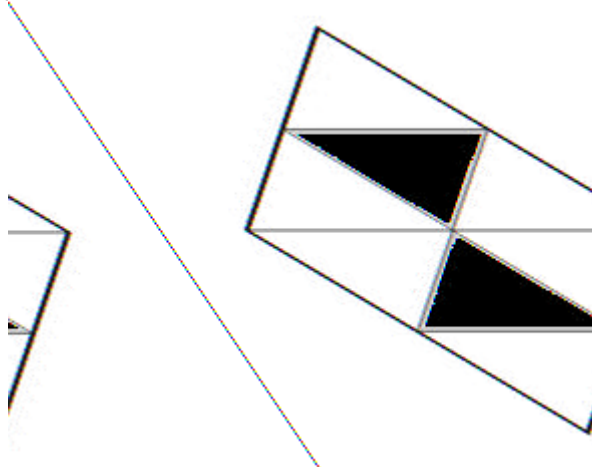
One of the number cards is 6 '.

What could Karen's fraction be?

Give **both possible** answers.

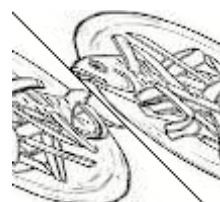
  $\frac{\boxed{\phantom{0}}}{\boxed{\phantom{0}}}$  or  $\frac{\boxed{\phantom{0}}}{\boxed{\phantom{0}}}$

7 (b) Here is a square. What fraction of the square is shaded?



  $\frac{\boxed{\phantom{0}}}{\boxed{\phantom{0}}}$

8. These are the prices in a fish and chip shop.



Fish.....	€ 1.95c
Chips ..... small bag .....	55c
Chips ..... large bag .....	70c
Peas .....	38c

- (a) Luke has € 3.  
He wants to buy one fish, peas and two large bags of chips.  
How much **more** money does he need?

- (b) What change will Moira get from € 5 after buying **one fish** and **two large bags of chips**?

- 9(a) An isosceles triangle has a **perimeter of 12cm**. One of its sides is 5cm.  
What could the length of each of the other two sides be?

**Two different answers are possible.**

Give both answers.

and





- (b) A square has also a **perimeter of 12cm**.  
What is one side of the square?

10. A shop kept a tally chart to show what flavours of milk shake they sold.

Look at the following tally chart and then answer the questions.

	Number of children	Number of adults
chocolate	<div> <div>    </div> <div>    </div> <div>    </div> <div>  </div> </div>	<div> <div>    </div> <div>    </div> <div>   </div> </div>
strawberry	<div> <div>    </div> <div>    </div> </div>	<div> <div>    </div> <div>    </div> </div>

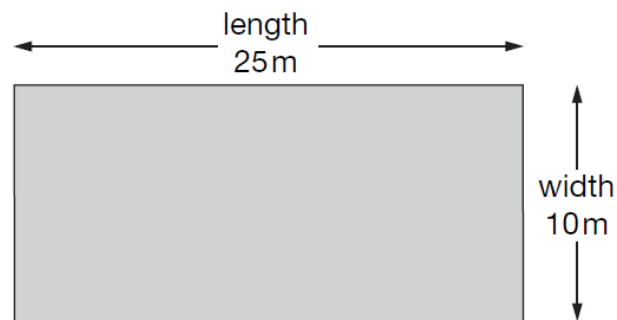
- (a) How many **children** bought a **lemon** milk shake?
- (b) **Altogether**, how many **people** bought a **strawberry** milk shake?
- (c) How many **more adults than children** bought a **vanilla** milk shake?
- (d) How many **more children than adults** bought a **chocolate** milk shake?
- (e) The **most preferred** milk shake flavour was
- (f) How many **children** bought a **lemon** or an **orange** milk shake?

11.





A rectangular pool is **25 metres long** and **10 metres wide**.



David swims **5 lengths**.

Rosie swims **11 widths**.

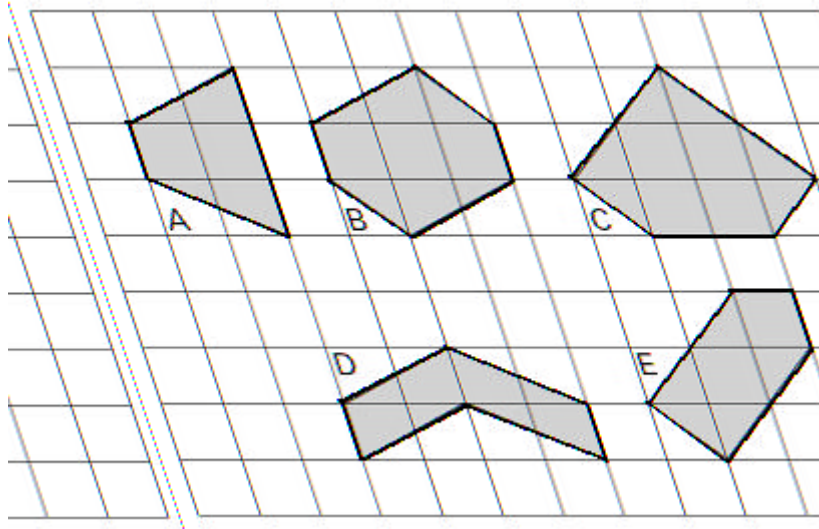
- (a) How many metres does **David** swim?

- (b) How many metres does **Rosie** swim?

- (c) \_\_\_\_\_ swam the further.

- (d) By how many metres?

12. Here are some shaded shapes on a square grid.



- a) Write the **letters** of the **two shapes** which are **hexagons**.

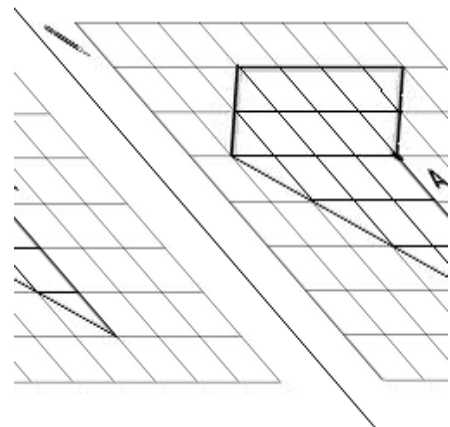


- (b) Write the **letters** of the **two shapes** which have **right angles**.



- (c) (i) Look carefully at the diagram.

The shaded shape is a



- (ii) Draw **two straight lines** from point A to divide the shaded shape into a square and two triangles.

- 13(a) Circle two cards which have a total of 10.

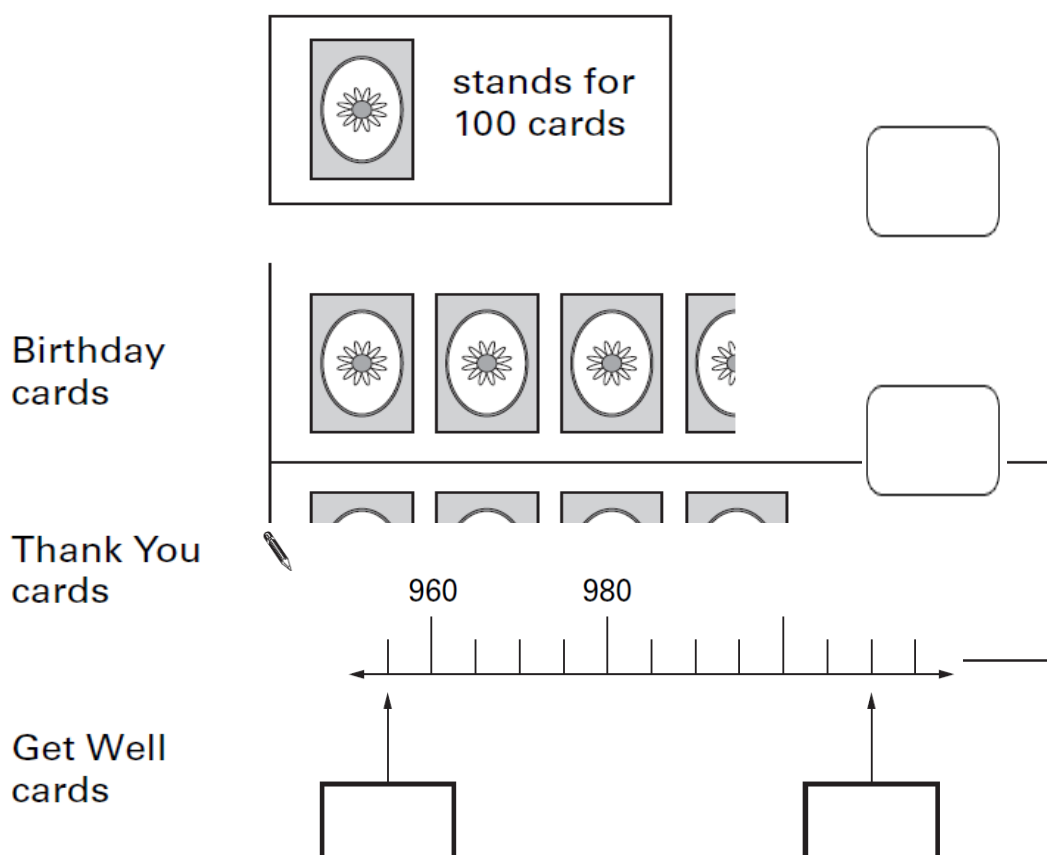


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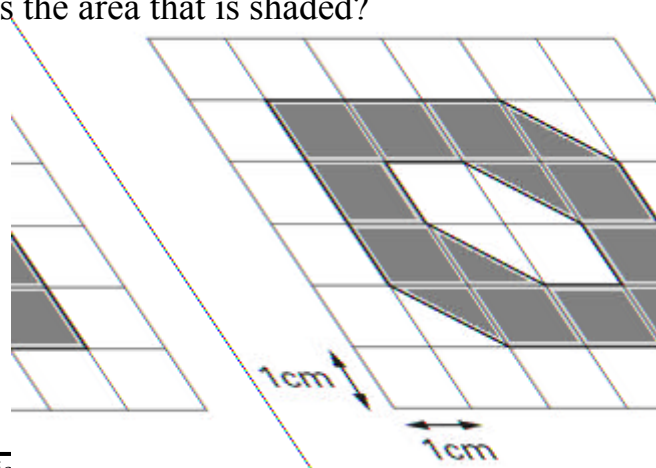
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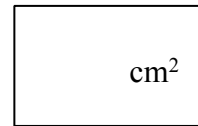
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- (b) A shop sells different kinds of greeting cards. The pictograph shows how many they sold in a week.



- 14 (b) Here is a 1cm square grid. Some of the grid is shaded. What is the area that is shaded?





- 14 (c) Match each decimal fraction to its equivalent fraction.  
One has been done for you.



0.25

$\frac{3}{4}$

0.4

$\frac{2}{10}$

0.75

$\frac{1}{4}$

0.2

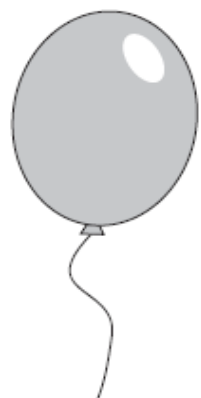
$\frac{2}{5}$

15. There are **5 balloons** in a **packet**.  
There are **18 packets** in a **box**.

- (a) How many balloons are there **altogether** in a box?



- (b) There are **5 balloons in a packet**. Maria needs 75 balloons for her party. How many packets does she need?



- (c) Each packet of balloons cost **60c**. How much does Maria pay for all the packets?



16.



Ruth makes a fruit salad using bananas, oranges and apples.

**For every one banana, she uses two oranges and 3 apples.**

Ruth uses 24 fruits in all. How many oranges does she use?



Marking Scheme

1 to 8 = 4 marks each X 8 = 32 marks

9 to 16 = 6 marks each X 8 = 48 marks

Total = 80 marks + 20 marks mental maths

**END OF PAPER**