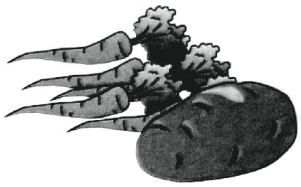
Core Activity:

Proportion and Ratio

1. Nine identical bags weigh **72 kg** altogether. How much does one bag weigh?

.....kg

2. Kai has some carrots and some potatoes.



There are **five** carrots for every potato.

Kai has **three** potatoes. How many carrots does he have?

.....carrots

3. Six chocolate eggs cost **£2.40**. How much do ten chocolate eggs cost?
Show your working in the box.

£.....

4. Here is a recipe for pancakes:

Pancake Recipe
250 ml milk
120 g flour
60 g butter

Grace makes some pancakes using **480 g** flour.

How much butter does she need?

.....g

How much milk does she need?

.....ml

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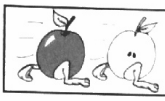


Proportion and Ratio

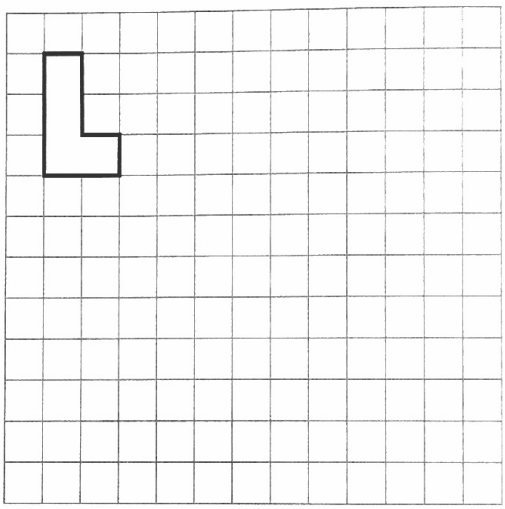
5. Jake has **56** cupcakes to put into some cake tins.

He puts the same number of cupcakes into each tin. **5** tins contain **35** cupcakes in total.

How many tins are there altogether? Show your working in the box.

.....tins

6. Enlarge the shaded shape on the grid by a scale factor of **3**.



If you had enlarged the shaded shape by a scale factor of **8**,
how many squares long would the bottom of the enlarged shape be?

.....squares

7. Line B is **55 cm** long. It is an enlargement of line A which is **5 cm** long.

What is the scale factor of the enlargement?

.....

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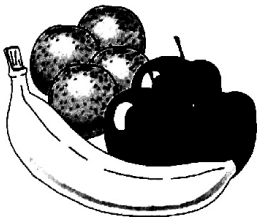
Proportion and Ratio

8. A grocery sells fruit boxes which include four oranges, three apples and one banana.



One day they sell **48** oranges in their fruit boxes.

How many apples did they sell?

.....*apples*

How many bananas did they sell?

.....*bananas*

9. Oscar is making some vegetable soup. He uses **9** carrots for every **5** parsnips.

Write down the ratio of carrots to parsnips by filling in the missing numbers.

☐ : ☐

Oscar uses **27** carrots. How many parsnips does he use?

.....*parsnips*

10. Matt and Cat won **£120** on the lottery.

They decide to share their winnings in the ratio 1 : 2.

How much money do they each get?

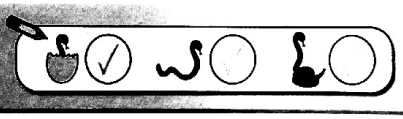
Matt £..... Cat £.....

11. Dilna's CD collection is made up of classical and pop CDs in the ratio 2 : 5.

She has **8** classical CDs. How many pop CDs does she own?

.....

Are you a fully clued-up Number Adder when it comes to proportion? Rate yourself on these ratios by ticking here.



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