

Division to solve problems

- 1 There are 1,360 children in a school.
A quarter of the children walk to school.
How many children walk to school?

340

- 2 Huan has saved his pocket money for 5 weeks.
He gets the same pocket money every week.
He has saved £16.65
How much pocket money does Huan get each week?



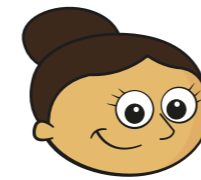
£3.33

- 3 Tom is running a 6-kilometre race.
He has run one-third of the race so far.
How many more kilometres does Tom have left to run?

4 km



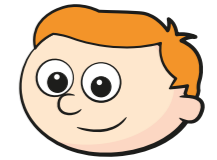
- 4 Dora, Ron and Teddy are making paper chains.



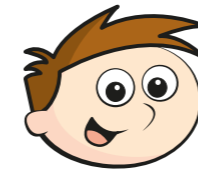
Dora

My paper chain
is 1.1 m long.

Dora's paper chain
is twice as long
as mine.



Ron



Teddy

My paper chain
is three times longer
than Ron's.

- a) How long is Ron's paper chain?

0.55m

- b) How long is Teddy's paper chain?

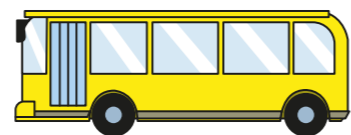
1.65m

- 5 A water bottle holds 2 litres.
A leak in the bottle means 25 ml drips out each day.
How many days will it take until the bottle is empty?



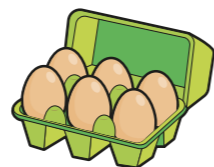
80 days

- 6 a) A school bus can hold 30 people.
There are 726 children going on a school trip.
How many buses are needed?



25

- b) A cake needs 4 eggs.
How many cakes can be made from 345 eggs?



86

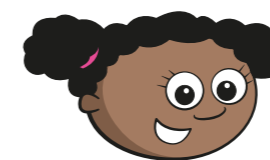
- 7 Shop A sells 5 tins of paint for £23.40
Shop B sells 3 tins of the same paint for £14.01



Which shop should Aisha buy her paint from? B
Explain your reasoning.

Shop A is £4.68 per tin. Shop B is £4.67
per tin so shop B is cheaper

- 8 $146 \div 5 = 29$ remainder 1
 $117 \div 4 = 29$ remainder 1



This means that
 $117 \div 4 = 146 \div 5$

Do you agree with Whitney? No
Explain your thinking.

The remainder isn't worth the same amount.
 $146 \div 5 = 29.2$, $117 \div 4 = 29.25$
 $29.2 \neq 29.25$

- 9 I'm thinking of a 3-digit number.
When I divide it by 5, I am left with a remainder of 3
When I divide it by 10, I am left with a remainder of 8
It rounds to 200 to the nearest 100
It has one hundred.
What could my number be?

5, 6, 7, 8 or 9
1 _ 8

e.g. 198

Create your own problem like this for a partner.

