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

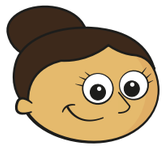
3 Tom is running a 6-kilometre race.

He has run one-third of the race so far.

How many more kilometres does Tom have left to run?

4km

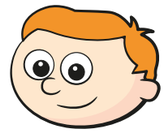
4 Dora, Ron and Teddy are making paper chains.



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 drops out each day.

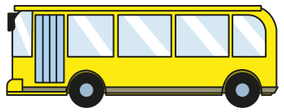
How many days will it take until the bottle is empty?

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

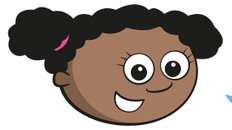
Which shop should Aisha buy her paint from? B

Explain your reasoning.

Shop A is £4·68 per tin. Shop B is £4·67 per tin so shop B is cheaper

8 146 ÷ 5 = 29 remainder 1

117 ÷ 4 = 29 remainder 1



This means that
117 ÷ 4 = 146 ÷ 5

Do you agree with Whitney? No

Explain your thinking.

The remainder isn't worth the same amount.

146 ÷ 5 = 29·2, 117 ÷ 4 = 29·25

29·2 ≠ 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?

1 _ 8 — 5, 6, 7, 8 or 9

e.g. 198

Create your own problem like this for a partner.