

L.O. Divide decimals to solve problems (2) - ANSWERS

Problem 9

Dora, Ron and Teddy are making paper chains.

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

0.55m

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

1.65m



Dora

My paper chain is 1.1 m long.



Teddy

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



Ron

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

Problem 10

A water bottle holds 2 litres.

A leak in the bottle means that 25 ml drips out each day.

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



80 days

Problem 11

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 Mrs Rees buy her paint from? Shop B



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

Problem 12

$13.76 \div 8 = 1.72$ kg Each large plant pot will contain 1.72 kg of compost.



$18 \text{ kg} - 13.76 \text{ kg} = 4.24 \text{ kg}$. She now has 4.24 kg to share equally between 4 small plant pots.

$4.24 \div 4 = 1.06$ kg Each small plant pot will contain 1.06 kg of compost.



Problem 13

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

Problem 14

a)

$55.2 \div \square = \underline{\hspace{2cm}}$

$31.2 \div \square = \underline{\hspace{2cm}}$

$23.7 \div \square = \underline{\hspace{2cm}}$

The difference between the greatest and the smallest answer in this group of calculations is 10.5.

$55.2 \div 3 = 18.4$

$31.2 \div 3 = 10.4$

$23.7 \div 3 = 7.9$

Problem 15

Use three of the numbers on the digit cards shown to complete each of these division calculations.



A digit card can only be used once in each calculation.

a) $9.6 \div 8 = 1.2$

b) $9.8 \div 7 = 1.4$

c) $7.6 \div 8 = 0.95$