

Lesson 2-

I can multiply by 10 and  
100 - reasoning and  
problem solving

# Recap:

Yesterday's lesson helped us recap how to multiply by 10 (move the decimal place once to the right) and to multiply by 100 (move the decimal place to the right twice).

$$640 \times 10 = 6400$$

$$640 \times 100 = 64000$$

# Problem Solving:

The numbers below are the amount of ice creams sold by three ice cream shops. Use the clues to match the shop to their amount.

700

410

70

41

Ice Cream World sold 10 times more ice creams than Nick's Ices.

Nice Ice sold 7 lots of ten ice creams.

Super Ice Creams sold 10 times more than Nice Ice.

# Problem Solving:

The numbers below are the amount of ice creams sold by three ice cream shops. Use the clues to match the shop to their amount.

~~700~~

410

~~70~~

41

Ice Cream World sold 10 times more ice creams than Nick's Ices.

Nice Ice sold 7 lots of ten ice creams. 70

Super Ice Creams sold 10 times more than Nice Ice.  $70 \times 10 = 700$

Top tip: use what information you already have, to start with.

Then use the remaining information to solve the rest of the problem.

# Problem Solving: answers

The numbers below are the amount of ice creams sold by three ice cream shops. Use the clues to match the shop to their amount.

700

410

70

41

Ice Cream World sold 10 times more ice creams than Nick's Ices.

Nice Ice sold 7 lots of ten ice creams.

Super Ice Creams sold 10 times more than Nice Ice.

Ice Cream World = 410; Nick's Ices = 41; Nice Ice = 70; Super Ice Creams = 700

# Reasoning:

Chris buys a pack of crayons. There are 10 crayons in a pack.

It takes 350 crayons to fill the drawer.

He buys 33 more packs.

Does Chris have enough crayons to fill the drawer?

Explain how you know.

# Reasoning:

Chris buys a pack of crayons. There are 10 crayons in a pack.

It takes 350 crayons to fill the drawer.

He buys 33 more packs.

Does Chris have enough crayons to fill the drawer?

Explain how you know.

1 pack + 33 packs = 34 packs.

34 packs X 10 (that is the number of crayons in each pack) = 340

350 are needed to fill the drawer. Chris only has 340.

Step 1- Highlight the key parts of the question.

Step 2- Find out how many packs Chris has altogether.

Step 3 - Multiply the numbers you have got.

Step 4- Do you have enough crayons? Explain your answer.

# Reasoning: answer

Chris buys a pack of crayons. There are 10 crayons in a pack.

It takes 350 crayons to fill the drawer.

He buys 33 more packs.

Does Chris have enough crayons to fill the drawer?

Explain how you know.

Your answer could look like this:

No, because  $34 \times 10 = 340$ . He needs 10 more.

Chris does not have enough crayons to fill the drawer as he has 340 crayons and it takes 350 to fill the drawer.

# Activity:

Try and complete some of the reasoning and problem-solving questions on the activity sheet for this lesson. Remember to break down the question and answer it by either proving something or explaining your answer.