

20.01.2021

LI: To solve problems involving fractions of amounts.

SC:

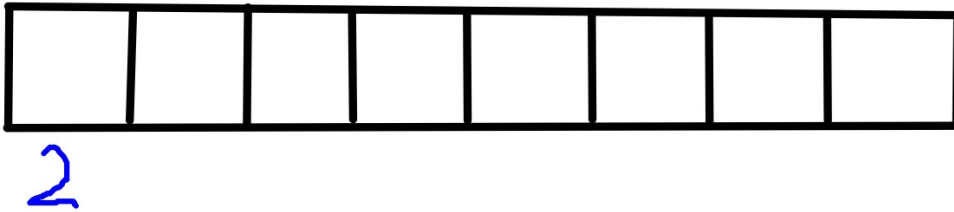
- I can solve problems where I need to work out the whole number
- I can work backward to solve problems.
- I can check my answer is sensible.

Key vocabulary:

- numerator
- denominator
- unit fraction (numerator is 1)
- non unit fraction (numerator is more than 1)
- whole

Starter:

If $\frac{1}{8}$ of a packet is 2 sweets.
How many sweets must there be in total?



Answer

Model:

Answer

Sam has drunk $\frac{1}{4}$ of his drink. He has drunk 20 ml. How big must the whole drink be? **80ml**

We need to work backwards!

Step 1: Total divided by numerator

Step 2: Multiply answer by denominator

$$20 \div 1 = 20$$

$$20 \times 4 = 80$$

Miya dreamt for $\frac{1}{4}$ of her sleep. She dreamt for 2 hours. How long was she asleep for in total? **8 hours**

We need to work backwards!

Step 1: Total divided by numerator

Step 2: Multiply answer by denominator

$$2 \div 1 = 2$$

$$2 \times 4 = 8$$

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- I can solve problems where I need to work out the whole number
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- I can check my answer is sensible.

Check it

We need to work backwards!

Step 1: Total divided by numerator

Step 2: Multiply answer by denominator

1. Mandy has drunk $\frac{1}{4}$ of her drink. She drank 5ml. How big was her drink to start with?
2. $\frac{1}{5}$ of how far John ran is 20 miles. How far did he run altogether?

Think it

Think It

1.If $\frac{2}{5}$ of a drink = 100ml, what is the total volume of the drink?

2.If $\frac{3}{4}$ of a purse = £15, how much is in the purse?

Master it

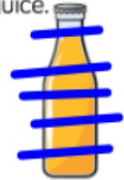
Alex and Eva share a bottle of juice.

Alex drinks $\frac{3}{5}$ of the juice.

Eva drinks 200 ml of the juice.

One fifth of the juice is left in the bottle.

How much did Alex drink?



Plenary

Self assessment



SC:

- I can solve problems where I need to work out the whole number
- I can work backward to solve problems.
- I can check my answer is sensible.

Check it

We need to work backwards!

Step 1: Total divided by numerator

Step 2: Multiply answer by denominator

1. Mandy has drunk $\frac{1}{4}$ of her drink. She drank 5ml. How big was her drink to start with? 20ml

2. $\frac{1}{5}$ of how far John ran is 20 miles. How far did he run altogether? 100 miles

Think it

Think It

1.If $\frac{2}{5}$ of a drink = 100ml, what is the total volume of the drink? 250ml

2.If $\frac{3}{4}$ of a purse = £15, how much is in the purse? £20

Master it

Alex and Eva share a bottle of juice.

Alex drinks $\frac{3}{5}$ of the juice.

Eva drinks 200 ml of the juice.

One fifth of the juice is left in the bottle.

How much did Alex drink?

600ml

