

L.O: to find fractions of amounts

Recap: how quickly can you solve.....

$\frac{2}{3}$ of 126	$\frac{11}{14}$ of 210	$\frac{13}{15}$ of 60
$\frac{5}{6}$ of 84	B2. $\frac{2}{11}$ of 110	C2. $\frac{9}{10}$ of 120
$\frac{3}{7}$ of 21	B3. $\frac{3}{11}$ of 66	C3. $\frac{1}{10}$ of 360
$\frac{2}{3}$ of 48	B4. $\frac{14}{15}$ of 30	C4. $\frac{18}{19}$ of 513
$\frac{3}{4}$ of 16	B5. $\frac{1}{3}$ of 120	C5. $\frac{2}{17}$ of 136

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84	B1.0	165	B1.0	52
70	B2.0	20	C2.0	108
9	B3.0	18	C3.0	36
32	B4.0	28	C4.0	486
12	B5.0	40	C5.0	16

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Home Learners:



<https://vimeo.com/480708847>

Follow the link to watch how to find the whole amount.

I
do

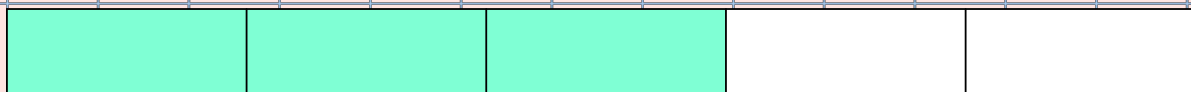
LO: to find fractions of amounts

÷ numerator

X denominator

What was the original number?

$$\frac{3}{5} \text{ of } \boxed{} = 90$$



$$\frac{3}{5} = 90$$

$$\frac{1}{5} = 90 \div 3 = 30$$

$$\frac{5}{5} = 30 \times 5 = 150$$

I
do

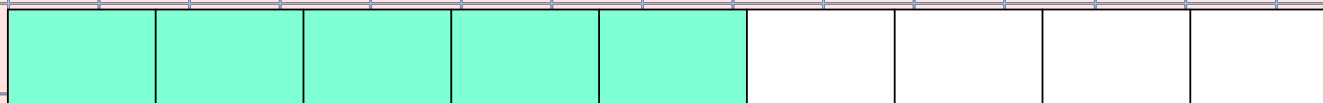
LO: to find fractions of amounts

÷ numerator

× denominator

What was the original number?

$$\frac{5}{9} \text{ of } \boxed{} = 545$$



$$\frac{5}{9} = 545$$

$$\frac{1}{9} = 545 \div 5 = 109$$

$$\frac{9}{9} = 109 \times 9 = 981$$

you
do

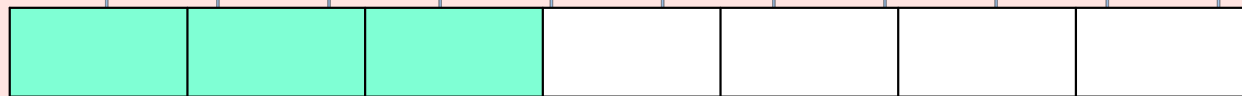
LO: to find fractions of amounts

÷ numerator

X denominator

What was the original number?

$$\frac{3}{7} \text{ of } \boxed{} = 123$$



$$\frac{3}{7} = 123$$

I
do

LO: to find fractions of amounts

÷ numerator

× denominator

What was the original number?

$$\frac{3}{7} \text{ of } \boxed{} = 123$$



$$\frac{3}{7} = 123$$

$$\frac{1}{7} = 123 \div 3 = 41$$

$$\frac{7}{7} = 41 \times 7 = 287$$

you
do

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Complete in books.

What was the original number?

$$\frac{9}{15} \text{ of } \boxed{} = 189$$

$$\frac{6}{11} \text{ of } \boxed{} = 726$$

$$\frac{2}{8} \text{ of } \boxed{} = 210.5$$

$$\frac{7}{12} \text{ of } \boxed{} = 395.5$$

you
do

LO: to find fractions of amounts

Let's mark!

What was the original number?

$$\frac{9}{15} \text{ of } 315 = 189$$

$$\frac{6}{11} \text{ of } 1331 = 726$$

$$\frac{2}{8} \text{ of } 842 = 210.5$$

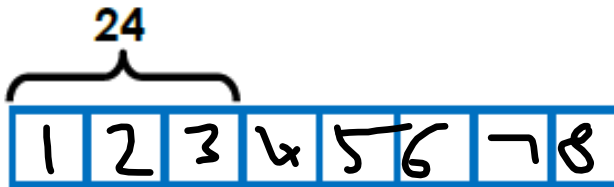
$$\frac{7}{12} \text{ of } 678 = 395.5$$

I
do

L.O: to find fractions of amounts

REASONING 1

Jane has been challenged to complete the calculation:

$$\frac{\square}{8} \text{ of } \square = 24$$




I don't have enough information
to find the missing numbers.

Is she correct? Explain your reasoning.

We can use
the bar
model to
help. How
many parts
is the 24
representing?

**I
do**

LO: to find fractions of amounts

D – Jane is incorrect.

A – She does have enough information to find the missing numbers.

B – The bar model shows that 3 of the 8 parts are equal to 24 so the missing numerator must be 3. If she divides 24 by 3 (the number of parts she knows) she would get 8. Each equal part has a value of 8 and there are 8 parts in total. $8 \times 8 = 64$ so the missing whole must be 64.

you
do

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Complete the reasoning questions in your books.

REASONING 2

Which is the odd one out? Convince me.

$$\frac{7}{12} \text{ of } \boxed{} = 28$$

$$\frac{5}{6} \text{ of } \boxed{} = 40$$

$$\frac{3}{4} \text{ of } \boxed{} = 27$$

$$\frac{7}{8} \text{ of } \boxed{} = 42$$

you
do

LO: to find fractions of amounts

Complete the reasoning questions in your books.

REASONING 3

Alfie, Jerry and Anita are finding a whole amount.

$$\frac{2}{7} \text{ of } \boxed{} = 14$$


Alfie



The whole number must be 35.

Jerry



The whole number must be 4.

Anita



The whole number must be 49.

Who is correct?

Explain the mistakes that the others have made.

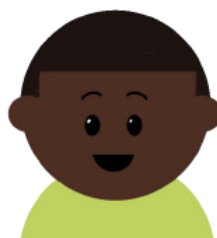
you
do

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Complete the reasoning questions in your books.

PROBLEM SOLVING 1

A clothes shop is having a $\frac{2}{3}$ off everything sale! The new prices are shown below.



Caleb bought 3 items before the sale began.

He spent between £50 and £100.

Which items could he have bought?

How many possibilities can you find?



you
do

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Let's mark!

Reasoning 2

Pupil responses should show that the odd one out is: $\frac{3}{4}$ of = 27

Modelled DAB Reasoning Response

D – The odd one out is: $\frac{3}{4}$ of = 27

A – It has a different missing 'whole' than the other calculations.

B – The missing whole for this calculation is 36. The missing whole for all of the other calculations is 48.

Reasoning 3

Pupil responses should show that Anita is correct.

Modelled DAB Reasoning Response

D – Anita is correct.

A – The whole number must be 49.

B – Alfie has worked out the difference between the part he knows and the remaining parts of the whole.

Jerry has worked out $\frac{2}{7}$ of the known value (14).

Problem Solving 1

There are many possible answers. Answers could include:

Jacket (£60), Jumper (£30) and Hat (£9)

Boots (£45), Shoes (£39) and Socks (£6)

Trousers (£36), Shirt (£24) and Shoes (£39)