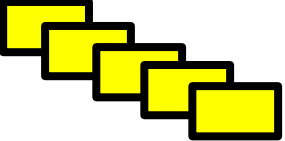


27.01.21

TBQ: Can I find fractions of amounts?



STEPS
TO
SUCCESS

I can identify the denominator and numerator in a fraction.

I can use division to help me find fractions of amounts.

I can explain the steps to finding fractions of amounts.

Activating Prior Knowledge



What methods do you now know to help you divide?

5 Minute Challenge!



Y

$$85 + 12 =$$

Last 1/2 term

$$\begin{array}{r} 736 \\ - 237 \\ \hline \\ \hline \end{array}$$

Last 1/2 term

$$\begin{array}{r} 364 \\ + 158 \\ \hline \\ \hline \end{array}$$

Last 1/2 term

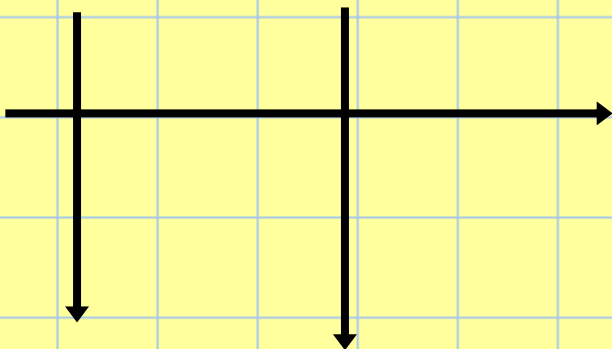
What is the value of the 6 in these numbers?

567 ->

678 ->

This 1/2 term

$$36 \times 2 =$$



Last Week

$$96 \div 3 =$$

$$3 \overline{)96}$$

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TBQ: Can I find fractions of amounts?

Al

What if 4 children share this box of sweets equally?



How could we calculate this answer?
What operation would we use?



How would we write this as a fraction number sentence?

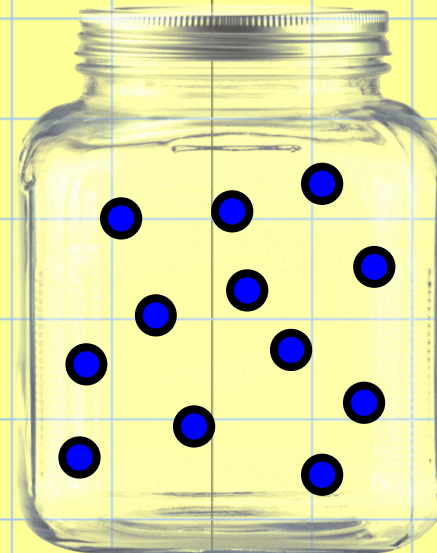
$$\frac{1}{4} \text{ of } 12 =$$

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TBQ: Can I find fractions of amounts?

Concrete

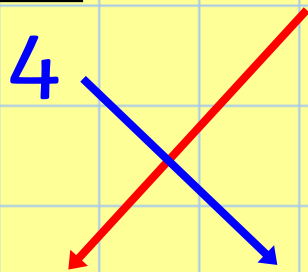
Use something around your house as sweets (maybe even...actual sweets!) and draw a bar, split into 4, on paper.



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TBQ: Can I find fractions of amounts?

$$\underline{1} \text{ of } 12 =$$



$$12 \div 4 = \underline{3}$$

$$3 \times 1 = 3$$

When finding fractions of amounts, we divide the number by the **denominator**.

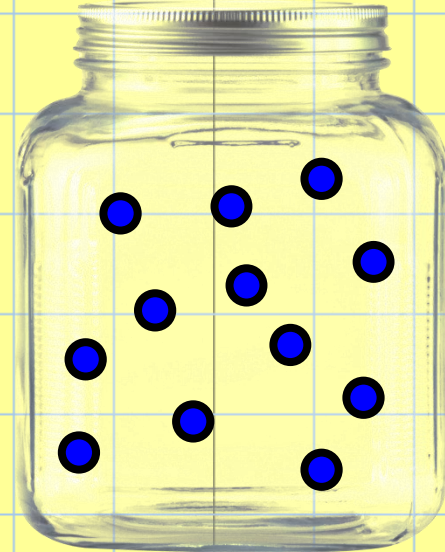
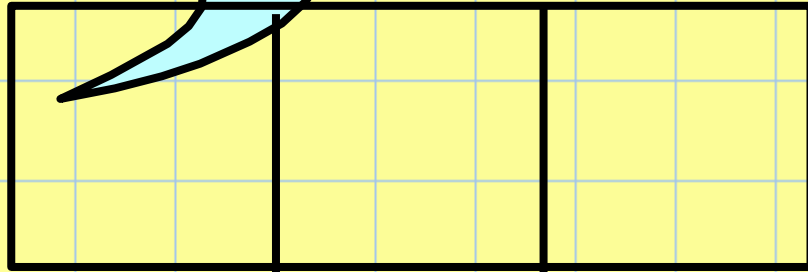
Then we multiply the answer by the **numerator**.

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TBQ: Can I find fractions of amounts?

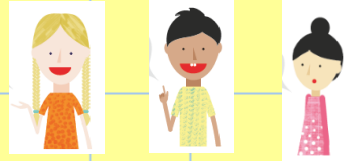
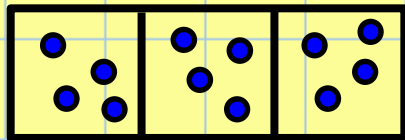
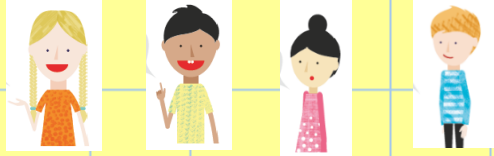
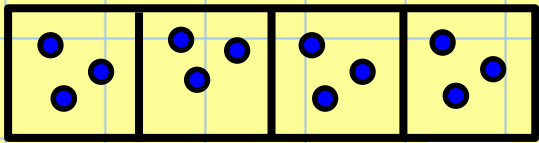
Pictorial

What if there were only 3 children?



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TBQ: Can I find fractions of amounts?



$$\frac{1}{4} \text{ of } 12 = 3$$

4

$$12 \div 4 = 3$$

$$3 \times 4 = 12$$

What are our number sentences for this scenario?

Can you write your answer below?

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TBQ: Can I find fractions of amounts?

Modelling

My turn!

Let's find $\frac{1}{4}$ of 24

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TBQ: Can I find fractions of amounts?

Your turn!

Let's find $\frac{1}{5}$ of 20

Have a go at this question and then watch the video below to check your answer.

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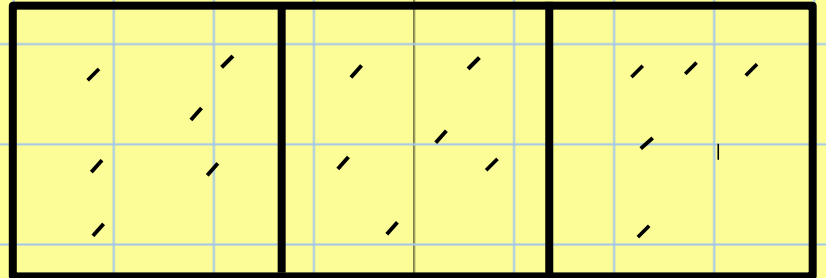
TBQ: Can I find fractions of amounts?

Modelling

$$\frac{1}{3} \text{ of } 18 = 6$$

$$18 \div 3 = 6$$

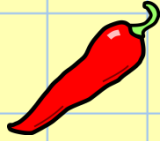
$$6 \times 1 = 6$$



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TBQ: Can I find fractions of amounts?

Chilli challenge



Mild

$$1/4 \text{ of } 8 =$$

$$1/4 \text{ of } 16 =$$

$$1/2 \text{ of } 14 =$$

$$1/4 \text{ of } 28 =$$

$$1/3 \text{ of } 9 =$$

Hot

$$1/4 \text{ of } 32 =$$

$$1/3 \text{ of } 15 =$$

$$1/5 \text{ of } 25 =$$

$$1/3 \text{ of } 21 =$$

$$1/5 \text{ of } 35 =$$

Flaming Hot

$$2/3 \text{ of } 63 =$$

$$3/5 \text{ of } 75 =$$

$$3/4 \text{ of } 56 =$$

$$4/6 \text{ of } 72 =$$

$$3/7 \text{ of } 147 =$$

Flaming Hot - Watch the video below to see how you could work out the answers to your questions (we have done this before in school!).

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TBQ: Can I find fractions of amounts?

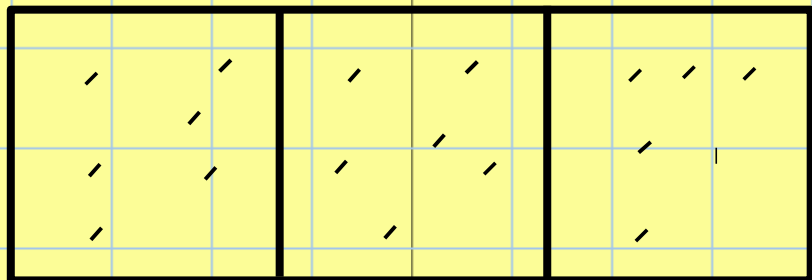
Modelling

FLAMING HOT - EXAMPLE

$$\frac{2}{3} \text{ of } 18 = 12$$

$$18 \div 3 = 6$$

$$6 \times 2 = 12$$



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TBQ: Can I find fractions of amounts?

Reasoning

Whitney has 12 chocolates.



On Friday, she ate $\frac{1}{4}$ of her chocolates and gave one to her mum.

On Saturday, she ate $\frac{1}{2}$ of her remaining chocolates, and gave one to her brother.

On Sunday, she ate $\frac{1}{3}$ of her remaining chocolates.

How many chocolates does Whitney have left?



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Problem solving

TBQ: Can I find fractions of amounts?

Flaming Hot - MEGA CHALLENGE



A little monkey had 60 peaches.

On the **first** day he decided to keep $\frac{3}{4}$ of his peaches.

He gave the rest away. Then he ate one.

On the **second** day he decided to keep $\frac{7}{11}$ of his peaches.

He gave the rest away. Then he ate one.

On the **third** day he decided to keep $\frac{5}{9}$ of his peaches.

He gave the rest away. Then he ate one.

On the **fourth** day he decided to keep $\frac{2}{7}$ of his peaches.

He gave the rest away. Then he ate one.

On the **fifth** day he decided to keep $\frac{2}{3}$ of his peaches.

He gave the rest away. Then he ate one.

How many did he have left at the end?

27.01.21

TBQ: Can I find fractions of amounts?

How do you feel about your learning today?

