

26/1/21

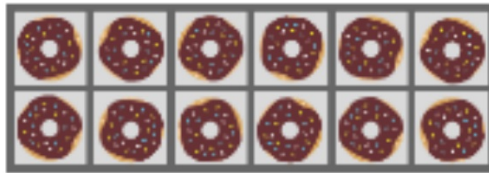
Before we start the lesson, you will need 12 counters. You could make these yourself by cutting 12 circles out of paper.



26/1/21

## Finding Part of a Set

In Focus

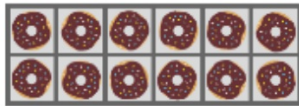


How many doughnuts is  $\frac{2}{3}$  of a box of 12 doughnuts?

Could you find out  $\frac{1}{3}$  first?

## Finding Part of a Set

### In Focus



How many doughnuts is  $\frac{2}{3}$  of a box of 12 doughnuts?



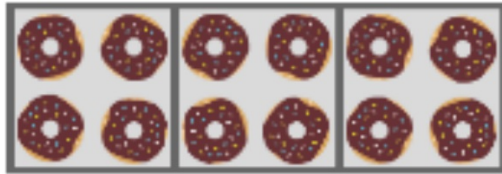
Use the counters to show how to divide 12 by 3.

$\frac{1}{3}$  means one part out of the 3.



## Let's Learn

1



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

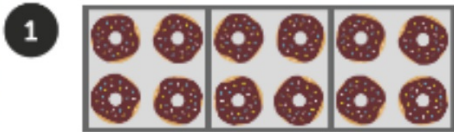
$$\frac{1}{3} \text{ of } 12 = 4$$

If we can see that  $\frac{1}{3}$  is 4 doughnuts, what will  $\frac{2}{3}$  be?

If  $\frac{1}{3}$  is 1 part of 12 doughnuts

Then  $\frac{2}{3}$  would be 2 parts of 12 doughnuts.

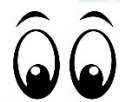
Let's Learn



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

$\frac{2}{3}$  of 12 doughnuts =  $2 \times 4$  doughnuts  
= 8 doughnuts

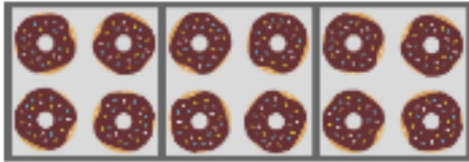
We can  
multiply by 2  
(numerator) to  
find the  
answer.



Watch video clip "Explanation 1"

## Let's Learn

1



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

$$\frac{2}{3} \text{ of 12 doughnuts} = 2 \times 4 \text{ doughnuts} \\ = 8 \text{ doughnuts}$$

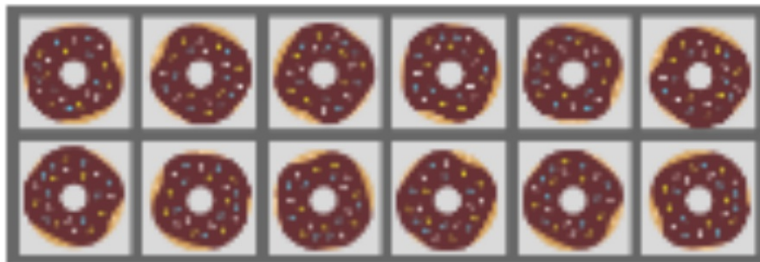
When we have to find multiple parts of a set of objects, we can first find 1 part, then multiply to find the answer.



Watch video clip "Explanation 1"

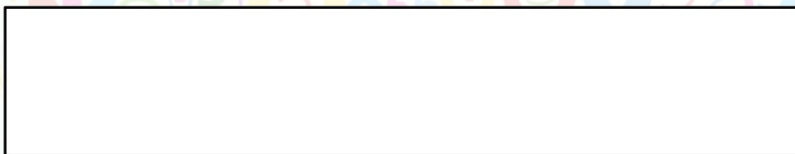


2

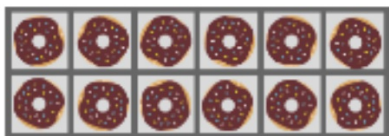


What is  $\frac{5}{6}$  of the box of doughnuts?

Use your counters or/and draw a bar model to help you.



2



Watch video clip  
"Explanation 2"

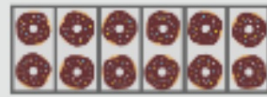
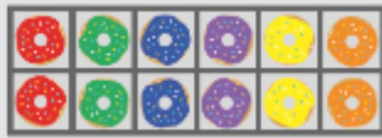
What is  $\frac{5}{6}$  of the box of doughnuts?



or

--	--	--	--	--	--





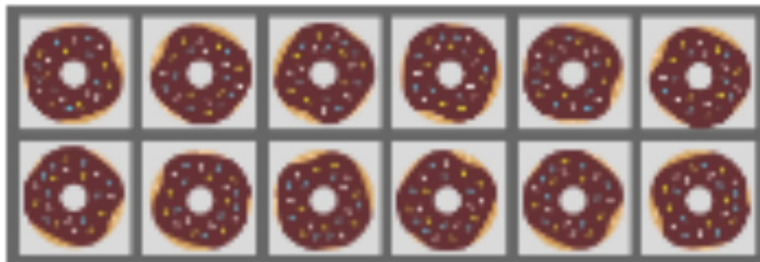
$$\frac{1}{6} \text{ of } 12 \text{ doughnuts} = 2 \text{ doughnuts}$$

$$\frac{5}{6} \text{ of } 12 \text{ doughnuts} = 5 \times 2 \text{ doughnuts} \\ = 10 \text{ doughnuts}$$



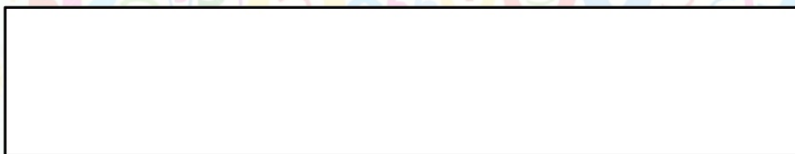
Watch video clip "Explanation 2" 🙄🙄

2

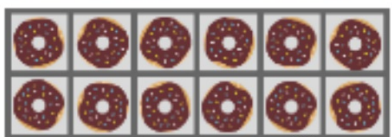


What is  $\frac{3}{4}$  of the box of doughnuts?

Use your counters or/and draw a bar model to help you.



2



Watch video clip  
"Explanation 3"

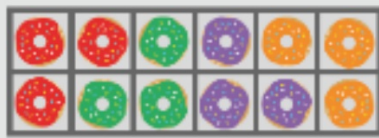


What is  $\frac{3}{4}$  of the box of doughnuts?

or

--	--	--	--





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

$$\frac{3}{4} \text{ of } 12 \text{ doughnuts} = 3 \times 3 \text{ doughnuts} \\ = 9 \text{ doughnuts}$$




Watch video clip "Explanation 3" 🙄🙄


### Guided Practice






Use  to help you.

1 What is  $\frac{3}{4}$  of 20 pies? 

2 What is  $\frac{2}{3}$  of 21 biscuits? 

3 (a) What is  $\frac{2}{5}$  of 15 cupcakes? 

(b) What is  $\frac{4}{5}$  of 15 cupcakes? 


Use  to stand for pies, biscuits and cupcakes.

Watch video clip  
"Explanation 4"



### Finding Part of a Set

1 Fill in the blanks.

Draw  in the bars to help you.

Use  to stand for cherries and buttons.



(a) What is  $\frac{1}{4}$  of 16 cherries?

--	--	--	--

$\frac{1}{4}$  of 16 cherries is  cherries.

(b) What is  $\frac{3}{4}$  of 20 buttons?

--	--	--	--

$\frac{3}{4}$  of 20 buttons is  buttons.

2 Fill in the blanks.

(a) What is  $\frac{1}{6}$  of 24 pens?

$\frac{1}{6}$  of 24 pens is  pens.

(b) What is  $\frac{5}{6}$  of 24 pens?

$\frac{5}{6}$  of 24 pens is  pens.

Complete the worksheet.