

Finding Part of a Set

LO: To be able to find a fraction of a set

In Focus



Is Lulu correct?



Lulu

$\frac{1}{4}$ of 20 children are boys.

$\frac{1}{4}$ of 20 is not 4

What operation can we use to find the answer?

We can use.....

What is the denominator?

What do we need to divide by?

Speaking frame: The denominator is _____.
We need to divide by _____.
_____ of _____ is _____.

Let's Learn

1



$\frac{1}{4}$

$\frac{1}{4}$ of 20 = 5

Lulu is not correct.

$\frac{1}{4}$ of 20 is not 4!



2

What is $\frac{1}{4}$ of 8?



1

This is a quarter.

It is like making



3

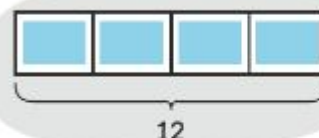
$\frac{1}{4}$ of 20 = 5

$20 \div 4 = 5$

$\frac{1}{4}$ of 8 = 2


$8 \div 4 = 2$

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

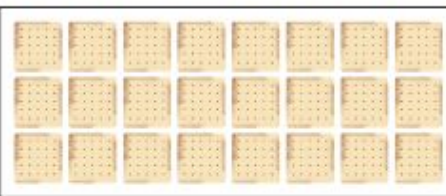


When solving these exercises please think at the following questions:

Guided Practice


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

2  $\frac{1}{4}$ of 16 =

3  $\frac{1}{4}$ of 24 =

4 (a) $\frac{1}{4}$ of 20 =
 (b) $\frac{1}{4}$ of 40 =

$\frac{3}{4}$ of 20 =



What is the denominator?
 What do we need to divide by?

How can we find 3 quarters?

What is the numerator?
 How many groups do we need to add?
 Is there another way to do this?

Complete each writing frame to solve the **Guided Practice** exercises:

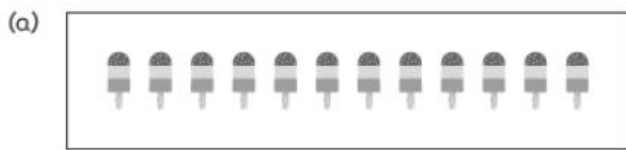
- The denominator is _____. We need to divide by _____.
 _____ divided by _____ is _____.
- The denominator is _____. We need to divide by _____.
 _____ divided by _____ is _____.
- The denominator is _____. We need to divide by _____.
 _____ divided by _____ is _____.

In the speech bubble, the denominator is _____ and the numerator is _____. We need to divide by _____. A quarter (a fourth) of 24 is _____. Then, 3 fourths of 24 will be equal to _____.

- a) The denominator is _____. We need to divide by _____. _____ divided by _____ is _____.
 b) The denominator is _____. We need to divide by _____. _____ divided by _____ is _____.

In the speech bubble, the denominator is _____ and the numerator is _____. We need to divide by _____. Then, if one fourth of 20 is _____, then 3 fourth will be _____.

1 Circle to divide the objects into four equal groups.
Fill in the blanks.

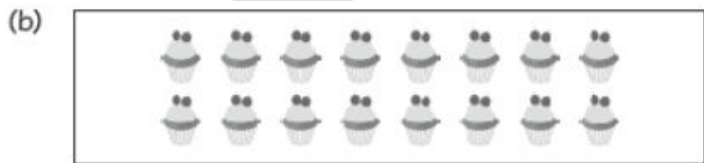


Answer by completing the following speaking frame:

(a) The denominator is _____. We need to divide by _____. _____ of _____ is _____.

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

(b) The denominator is _____. We need to divide by _____. _____ of _____ is _____.



In the second question, the denominator is _____ whereas the numerator is _____.

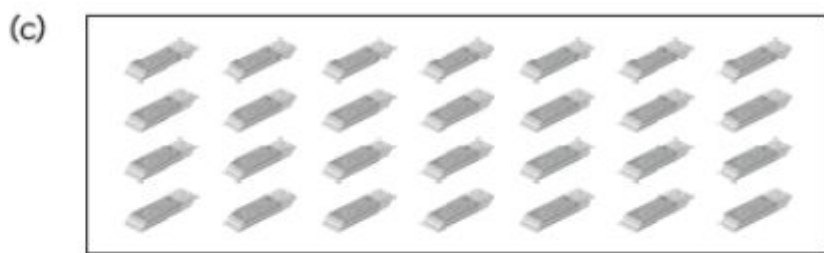
$\frac{1}{4}$ of 16 =

$\frac{2}{4}$ of 16 =

We need to divide by _____. _____ of _____ is _____.

If a quarter (a fourth) of 16 is _____, then 2

quarters of 16 is _____.



(c) The denominator is _____. We need to divide by _____. _____ of _____ is _____.

In the second exercise, the denominator is _____ whereas the numerator is _____.

We need to divide by _____. _____ of _____ is _____.

$\frac{1}{4}$ of 28 =

$\frac{3}{4}$ of 28 =

If a quarter of 28 is _____, then 3 quarters of 28 will be _____.

Answer by completing the following writing frame:

$\frac{1}{4}$ of 8

The denominator is _____. We need to divide by _____. _____ of _____ is _____.

$\frac{3}{4}$ of 24

The denominator is _____. We need to divide by _____. _____ of _____ is _____.
Then, we need to multiply the result with _____ times _____ is _____.

$\frac{1}{4}$ of 20

The denominator is _____. We need to divide by _____. _____ of _____ is _____.

$\frac{3}{4}$ of 28

The denominator is _____. We need to divide by _____. _____ of _____ is _____. Then, we need to multiply the result with _____ times _____ is _____.

$$\frac{2}{4} \text{ of } 40$$

The denominator is _____. We need to divide by _____.
_____ of _____ is _____. Then, we need to multiply the result with _____
_____ times _____ is _____

$$\frac{1}{4} \text{ of } 36$$

The denominator is _____. We need to divide by _____.
_____ of _____ is _____.

Challenge:

How many whole oranges are made from one half of an orange and two quarters of an orange?

There are 8 pieces of fruit in a bowl.

If $\frac{1}{4}$ of them are oranges, how many oranges are in the bowl?