

## Finding half and a quarter of an amount

### WORKED EXAMPLE

To find quarter ( $\frac{1}{4}$ ) of an amount, **halve it and halve it again** or **share it into four equal groups**.



$\frac{1}{2}$  of 12 is 6 and  $\frac{1}{2}$  of 6 is 3.

If 12 is shared into 4 equal groups, there are 3 in each group.

$\frac{1}{4}$  of 12 is 3.

### REHEARSE

Use 1LS32\_step4\_finding\_quarters\_of\_an\_amount to find  $\frac{1}{4}$  and complete the recording below.

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

8 shared into 4 equal groups.

There are \_\_\_\_\_ in each group.

$\frac{1}{4}$  of 8 is \_\_\_\_\_.

____ cubes			
$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$

20 shared into 4 equal groups.

There are \_\_\_\_\_ in each group.

$\frac{1}{4}$  of \_\_\_\_\_ is \_\_\_\_\_.

____ cubes			
$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$

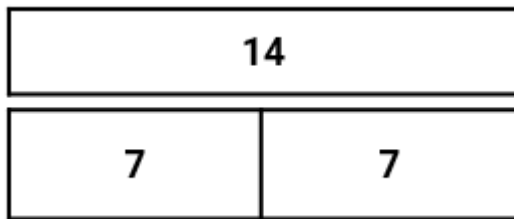
16 shared into \_\_\_\_\_ equal groups.

There are \_\_\_\_\_ in each group.

$\frac{1}{4}$  of \_\_\_\_\_ is \_\_\_\_\_.

## APPLY AND EXPLORE

Use the models to build the fractions and complete the sentences.

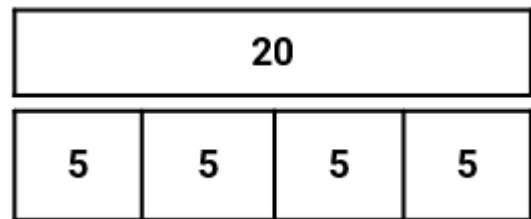


The whole is \_\_\_\_.

It has been divided into \_\_\_\_ equal parts.

There are \_\_\_\_ in each group.

$\frac{1}{2}$  of \_\_\_\_ is \_\_\_\_.

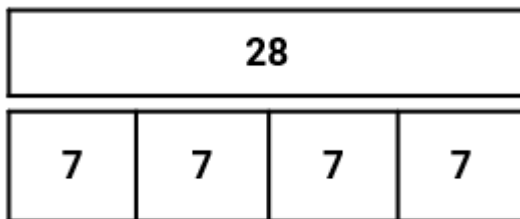


The whole is \_\_\_\_.

It has been divided into \_\_\_\_ equal parts.

There are \_\_\_\_ in each group.

$\frac{1}{4}$  of \_\_\_\_ is \_\_\_\_.

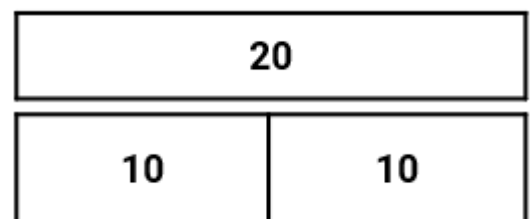


The whole is \_\_\_\_.

It has been divided into \_\_\_\_ equal parts.

There are \_\_\_\_ in each group.

$\frac{1}{4}$  of \_\_\_\_ is \_\_\_\_.



The whole is \_\_\_\_.

It has been divided into \_\_\_\_ equal parts.

There are \_\_\_\_ in each group.

$\frac{1}{2}$  of \_\_\_\_ is \_\_\_\_.

## APPLY AND EXPLORE

Look at the models that have 20 as the whole. What do you notice?

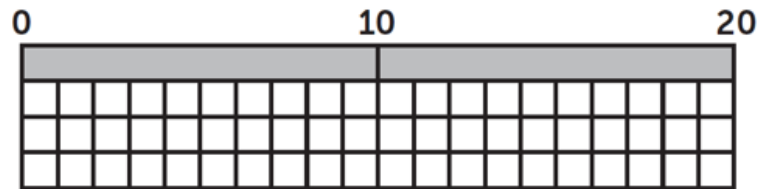
Look at the models that have 7 in each group. What do you notice?

Can you draw two models of your own that are connected?

## RETRIEVE

Can I still find the difference?

Complete the model to show the difference between 15 and 9.  
What is the difference?



## REHEARSE

Draw your own models to show the following.

The whole is 18.

It has been divided into \_\_\_\_ equal parts.

There are 9 in each group.

$\frac{1}{\quad}$  of \_\_\_\_ is \_\_\_\_.

The whole is \_\_\_\_.

It has been divided into 4 equal parts.

There are 6 in each group.

$\frac{1}{\quad}$  of \_\_\_\_ is \_\_\_\_.

## APPLY AND EXPLORE

Porchia found  $\frac{1}{2}$  of 32 was 16.

What would  $\frac{1}{4}$  of 32 be?

How do you know?