

## Find Three Quarters

### Adult Guidance with Question Prompts



Children build upon their previous learning of finding one quarter of a whole. Children should use concrete objects such as cubes and counters to find one quarter, and then three quarters, of different numbers. This activity uses pictures and bar models to further develop their understanding of finding three quarters of a number.

**How many dogs/cats are there?**

**How would you find one quarter of the dogs/cats?**

**What could you use to help you?**

**How many equal parts do you need to split the whole number into?**

**What is one quarter?**

**How could you use one quarter to help you find two/three/four quarters?**

**What is four quarters the same as?**

**How many equal parts is the bar model split into? What fraction is this?**

**How can you make sure you share the whole equally into each part?**

**What fraction is one equal part?**

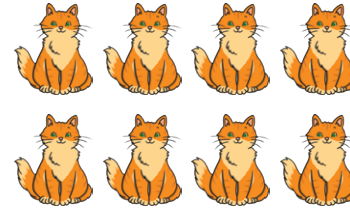
**How can you find three quarters using the bar?**

## Find Three Quarters



Split each amount into quarters.

Complete the sentences.



One quarter of \_\_\_ is \_\_\_.

Two quarters of \_\_\_ is \_\_\_.

Three quarters of \_\_\_ is \_\_\_.

Four quarters of \_\_\_ is \_\_\_.



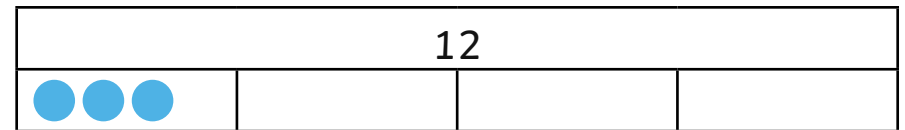
One quarter of \_\_\_ is \_\_\_.

Two quarters of \_\_\_ is \_\_\_.

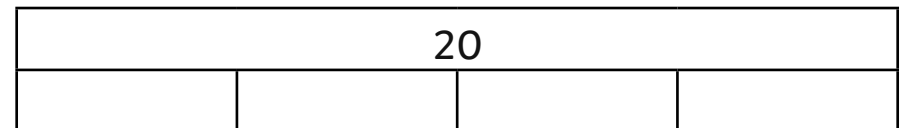
Three quarters of \_\_\_ is \_\_\_.

Four quarters of \_\_\_ is \_\_\_.

Can you find  $\frac{3}{4}$  of 12 using a bar model?



Can you find  $\frac{3}{4}$  of 20 using a bar model?



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Children apply their knowledge to reason about three quarters of an amount. Children would benefit from access to concrete resources such as cubes or counters for this activity. You may also wish to provide blank bar models for children to use.

How many sweets does Anna have?

How could Anna find one quarter?

Can you split 12 into quarters?

How many equal groups do you need?

How many groups have you made?

How many are in each group?

How many in one quarter?

How many in three quarters?

How is your answer different to Anna's?

What mistake could she have made?

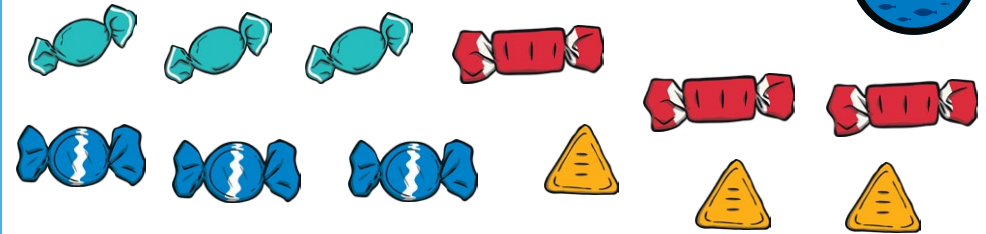
Why do you think she might have made this mistake?

How many groups did she split her sweets into?

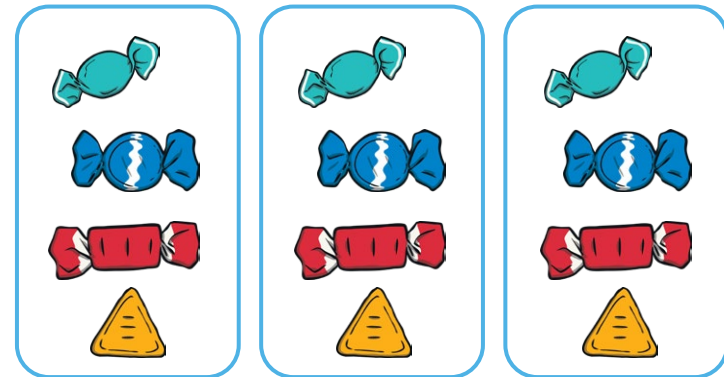
What fraction is that?

What does she need to remember to do next time?

## Find Three Quarters



Here are Anna's sweets. She wants to give  $\frac{3}{4}$  of them to her friends. Here is her working out:



$\frac{3}{4}$  of my sweets makes 12, so I will give 12 sweets to my friends.

Can you spot Anna's mistake? Why has she made this mistake?

Show how she could find  $\frac{3}{4}$  of her sweets.

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Children compare different fractions of the same number deciding which is larger. They use their knowledge of quarters and halves to explain their answers.

How many hedgehogs are there?

What fraction of 16 do you need to find?

How will you split the hedgehogs into quarters?

How many equal groups do you need?

How many hedgehogs are in one quarter?

How many are in three quarters?

How many mice are there?

What fraction of 20 do you need to find?

How will you split the mice in half?

How many equal groups do you need?

How many mice are in half?

Which is greater, 12 or 10?

Is three quarters of 16 greater than half of 20?

Is it true or false? Did you prove it?

Is three quarters of a number always greater than half?

Can you show me using these numbers?

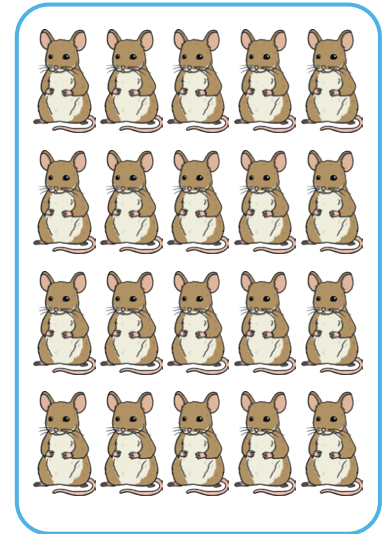
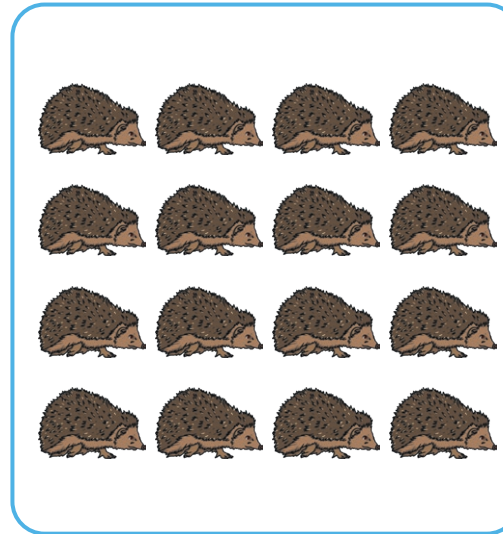
## Find Three Quarters



True or false?

$\frac{3}{4}$  of 16 is greater than  $\frac{1}{2}$  of 20.

Prove it!



Which will always be greater,  $\frac{1}{2}$  or  $\frac{3}{4}$  of the same number?

Convince me using these numbers:

8

24

32

