Thursday 11th June 2020   Y3 Maths

Hello, Year 3s.

In Maths today, I would like you to go to this BBC Bitesize page
https://www.bbc.co.uk/bitesize/articles/z78g47h

and watch the 2 videos about finding fractions of amounts.

Learn

In this lesson, you will learn how to find a fraction of an amount.

If you want to use some objects like building blocks, buttons or toys to sort, then you will need to get about 40 things to help you. Or, you can use a pencil and some paper to draw some circles to help you to sort.

You will learn to solve these problems in two steps.

We will start by finding 'one fifth of a group'. Then we will use that to work out 'three fifths'.

Click on this image on the website to watch the video and find out more!
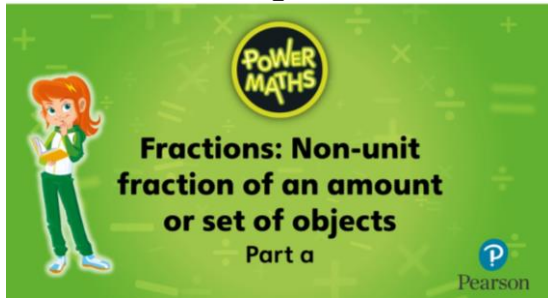
Now we will practise finding different fractions of a set. Remember, whatever fraction we are finding, we use the same two steps.

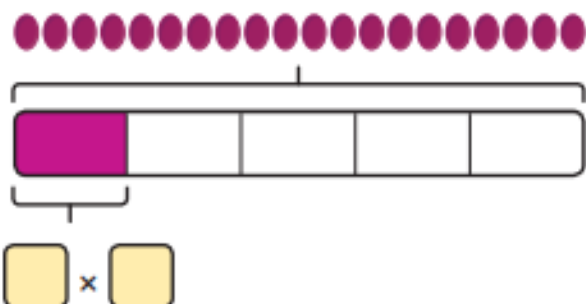Now watch the second video to find out how...
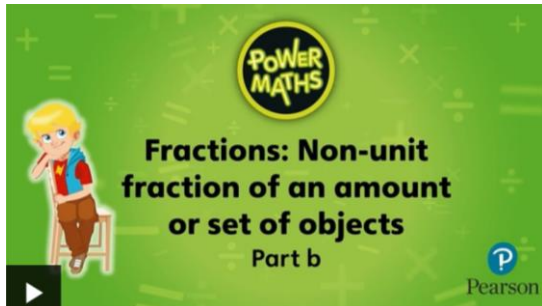
When you have watched the videos, try the worksheets on the following pages (the answers are at the end).
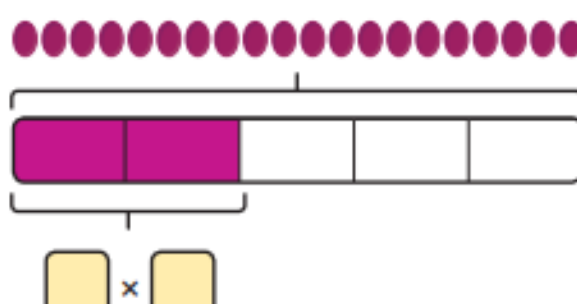
Think together

1. Find the required fraction of 20 grapes.
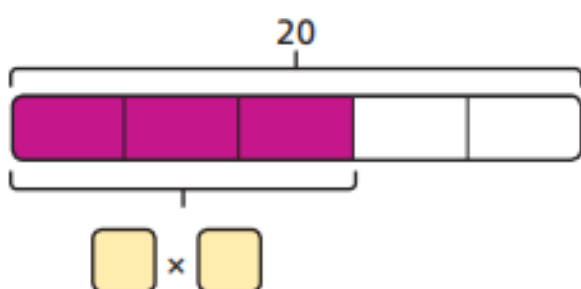
a) Find $\frac{1}{5}$ of 20 grapes.

⬤⬤⬤⬤⬤⬤⬤⬤⬤⬤⬤⬤⬤⬤⬤⬤⬤⬤⬤⬤

☐ × ☐

$\frac{1}{5}$ of 20 grapes = ☐ grapes.

c) Find $\frac{2}{5}$ of 20 grapes.
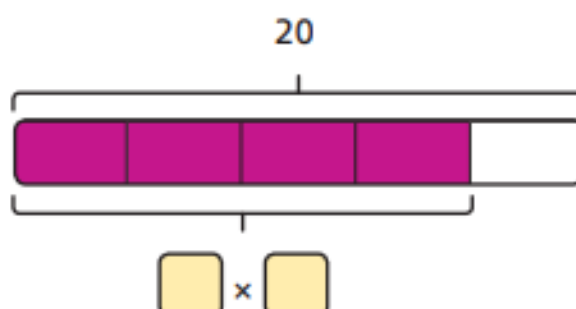
⬤⬤⬤⬤⬤⬤⬤⬤⬤⬤⬤⬤⬤⬤⬤⬤⬤⬤⬤⬤

☐ × ☐

$\frac{2}{5}$ of 20 grapes = ☐ grapes.

b) Find $\frac{3}{5}$ of the grapes.

20

☐ × ☐

$\frac{3}{5}$ of 20 grapes = ☐ grapes.

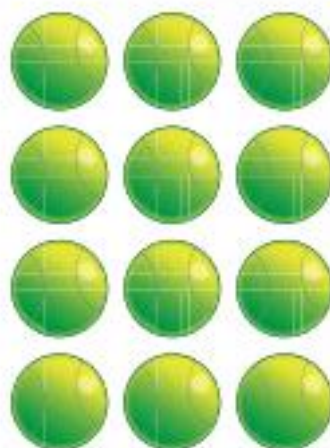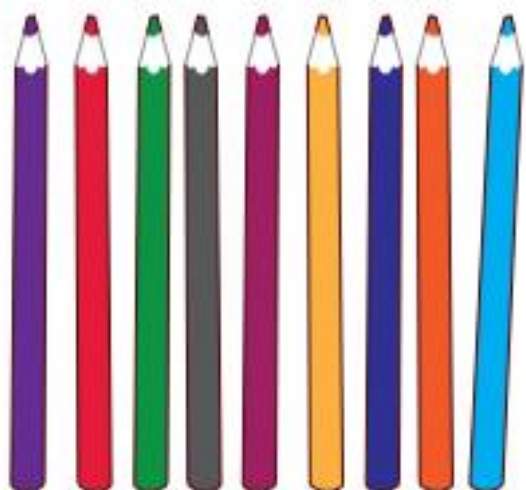**d)** Find $\frac{4}{5}$ of the grapes.

20

☐ × ☐

$\frac{4}{5}$ of 20 grapes = ☐ grapes.

> I can use the previous answers to help me calculate the final answer.

2 With your finger, circle $\frac{2}{3}$ of these objects.

a) $\frac{2}{3}$ of 9 = ☐

b) $\frac{2}{3}$ of 12 = ☐

3 Use these facts to find the missing answers.

a) $\frac{1}{4}$ of 16 apples = 4 apples $\frac{3}{4}$ of 16 apples = ☐ apples

b) $\frac{1}{9}$ of 45 oranges = 5 oranges $\frac{5}{9}$ of 45 oranges = ☐ oranges

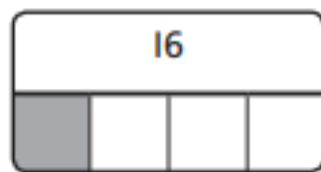c) $\frac{1}{10}$ of 30 kiwis = 3 kiwis $\frac{7}{10}$ of 30 kiwis = ☐ kiwis

I can use the unit fraction of each group of objects to help me calculate the non-unit fraction of the same amount.

Fractions of a set of objects ②

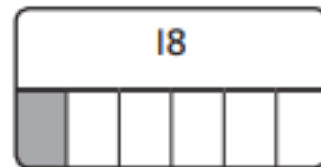**1** **a)** Find $\frac{1}{4}$ of 16 flowers.

$16 \div 4 = \boxed{}$

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

16

c) Find $\frac{1}{6}$ of 18 glasses.

$\boxed{} \div \boxed{} = \boxed{}$

$\frac{1}{6}$ of 18 glasses = $\boxed{}$ glasses

18

b) Find $\frac{3}{4}$ of 16 flowers.

$16 \div 4 = \boxed{}$

$\boxed{} \times 3 = \boxed{}$

$\frac{3}{4}$ of 16 flowers = $\boxed{}$ flowers

16
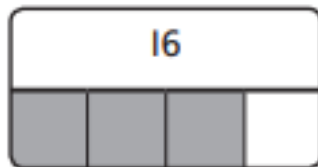
d) Find $\frac{5}{6}$ of 18 glasses.

$\boxed{} \div \boxed{} = \boxed{}$

$\boxed{} \times \boxed{} = \boxed{}$

$\frac{5}{6}$ of 18 glasses = $\boxed{}$ glasses

18
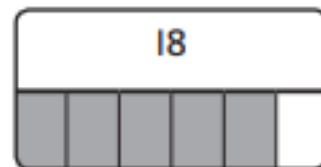
Answers

Activity 1

1 a): $\frac{1}{5}$ of 20 grapes = 4 grapes.

1 b): $\frac{2}{5}$ of 20 grapes = 8 grapes.

1 c): $\frac{3}{5}$ of 20 grapes = 12 grapes.

1 d): $\frac{4}{5}$ of 20 grapes = 16 grapes.

2 a): $\frac{2}{3}$ of 9 = 6

2 b): $\frac{2}{3}$ of 12 = 8

3 a): $\frac{3}{4}$ of 16 apples = 12 apples

3 b): $\frac{5}{9}$ of 45 oranges = 25 oranges

3 c): $\frac{7}{10}$ 10 of 30 kiwis = 21 kiwis

Activity 2

1. a) 16 ÷ 4 = 4 $\frac{1}{4}$ of 16 flowers = 4 flowers

1. b) 16 ÷ 4 = 4 4 × 3 = 12 $\frac{3}{4}$ of 16 flowers = 12 flowers

1. c) 18 ÷ 6 = 3 $\frac{1}{6}$ × 18 glasses = 3 glasses

1. d) 18 ÷ 6 = 3 5 × 3 = 15 $\frac{5}{6}$ × 18 glasses = 15 glasses