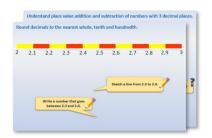
## Week 8, Day 5

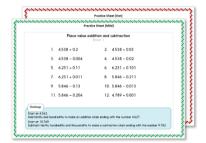
## Find non-unit fractions of quantities (2)

Each day covers one maths topic. It should take you about 1 hour or just a little more.

1. Start by reading through the **Learning Reminders**. They come from our *PowerPoint* slides.



Tackle the questions on the Practice Sheet.
 There might be a choice of either Mild (easier) or Hot (harder)!
 Check the answers.

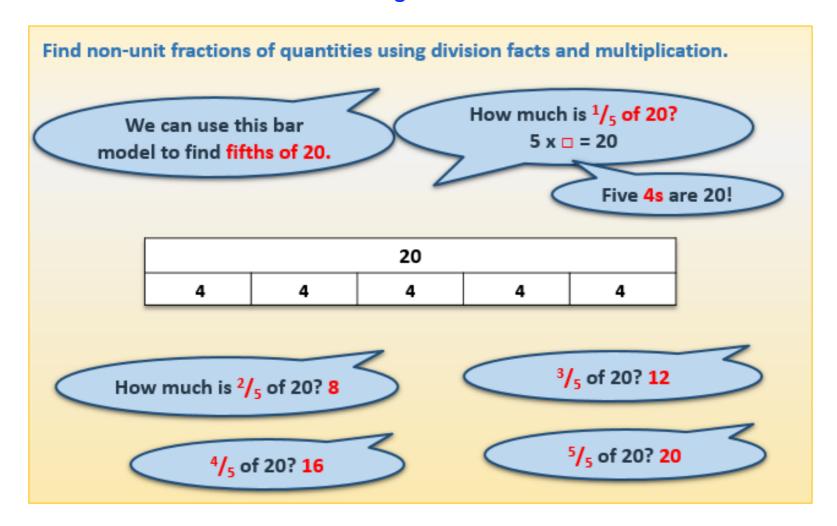


3. Finding it tricky? That's OK... have a go with a grown-up at A Bit Stuck?

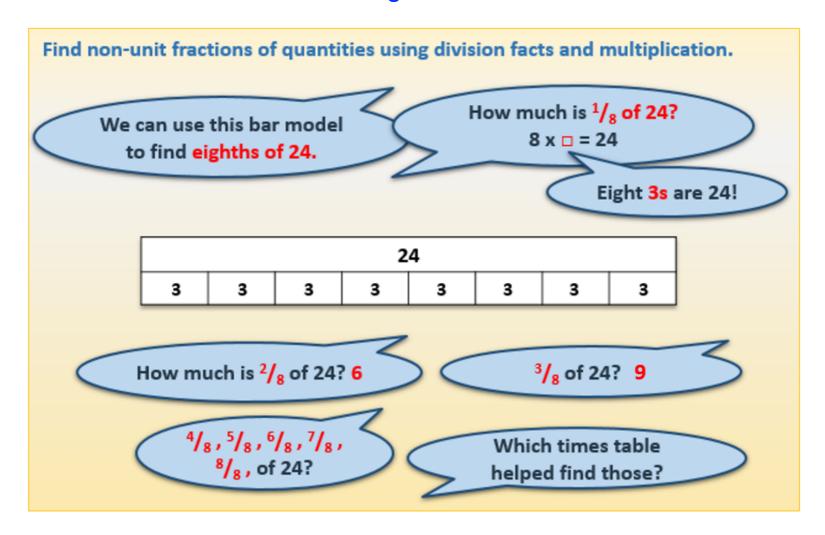


4. Think you've cracked it? Whizzed through the Practice Sheets? Have a go at the **Investigation**...

## **Learning Reminders**



## **Learning Reminders**



## **Practice Sheet Mild**

## Find non-unit fractions of numbers

 $\frac{1}{5}$  of 45 is 9. What is  $\frac{3}{5}$  of 45?

 $\frac{1}{4}$  of 32 is 8. What is  $\frac{3}{4}$  of 32?

 $\frac{1}{3}$  of 27 is 9. What is  $\frac{2}{3}$  of 27?

 $\frac{1}{8}$  of 24 is 3. What is  $\frac{5}{8}$  of 24?

of 22 = 11

**Challenge** 

 $\frac{}{3}$  of 30 = 20

Find the mystery fractions/numbers:

 $\frac{5}{2}$  of 32 = 20

 $\frac{1}{5}$  of 30 is

What is  $\frac{2}{5}$  of 30?

 $\frac{1}{4}$  of 24 is

. What is  $\frac{3}{4}$  of 24?

 $\frac{1}{3}$  of 24 is

What is  $\frac{2}{3}$  of 24?

 $\frac{1}{8}$  of 40 is

. What is  $\frac{6}{8}$  of 40?

## **Practice Sheet Hot**

## Find non-unit fractions of numbers

 $\frac{1}{5}$  of 45 is What is  $\frac{3}{5}$  of 45? . What is  $\frac{3}{4}$  of 32?  $\frac{1}{4}$  of 32 is What is  $\frac{2}{3}$  of 27?  $\frac{1}{3}$  of 27 is  $\frac{1}{8}$  of 24 is What is  $\frac{5}{8}$  of 24?  $\frac{1}{5}$  of 30 is . What is  $\frac{2}{5}$  of 30? . What is  $\frac{3}{4}$  of 24?  $\frac{1}{4}$  of 24 is  $\frac{1}{3}$  of 24 is . What is  $\frac{2}{3}$  of 24? . What is  $\frac{6}{8}$  of 40?  $\frac{1}{8}$  of 40 is

### Challenge

My sister ate  $\frac{3}{4}$  of my bag of 16 sweets. How many did she eat?

My brother will give me  $\frac{3}{8}$  of his pocket money if I tidy his bedroom. He has 80p, how much will he give me?

## **Practice Sheets Answers**

#### Find non-unit fractions of numbers (mild)

```
\frac{1}{5} of 45 is 9. What is \frac{3}{5} of 45? 27
```

$$\frac{1}{4}$$
 of 32 is 8. What is  $\frac{3}{4}$  of 32? 24

$$\frac{1}{3}$$
 of 27 is 9. What is  $\frac{2}{3}$  of 27? 18

$$\frac{1}{8}$$
 of 24 is 3. What is  $\frac{5}{8}$  of 24? 15

$$\frac{1}{5}$$
 of 30 is 6. What is  $\frac{2}{5}$  of 30? 12

$$\frac{1}{4}$$
 of 24 is 6. What is  $\frac{3}{4}$  of 24? 18

$$\frac{1}{3}$$
 of 24 is 8. What is  $\frac{2}{3}$  of 24? 16

$$\frac{1}{8}$$
 of 40 is 5. What is  $\frac{6}{8}$  of 40? 30

#### Challenge

#### Find the mystery fractions/numbers:

$$\frac{1}{2}$$
 of 22 = 11

$$\frac{1}{3}$$
 of  $30 = 20$ 

$$\frac{5}{8}$$
 of  $32 = 20$ 

#### Find non-unit fractions of numbers (hot)

$$\frac{1}{5}$$
 of 45 is 9. What is  $\frac{3}{5}$  of 45? 27

$$\frac{1}{4}$$
 of 32 is 8. What is  $\frac{3}{4}$  of 32? 24

$$\frac{1}{3}$$
 of 27 is 9. What is  $\frac{2}{3}$  of 27? 18

$$\frac{1}{8}$$
 of 24 is 3. What is  $\frac{5}{8}$  of 24? 15

$$\frac{1}{5}$$
 of 30 is 6. What is  $\frac{2}{5}$  of 30? 12

$$\frac{1}{4}$$
 of 24 is 6. What is  $\frac{3}{4}$  of 24? 18

$$\frac{1}{3}$$
 of 24 is 8. What is  $\frac{2}{3}$  of 24? 16

$$\frac{1}{8}$$
 of 40 is 5. What is  $\frac{6}{8}$  of 40? 30

#### Challenge

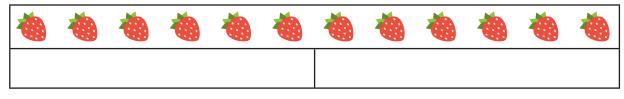
Your sister ate  $\frac{3}{4}$  of 16 sweets, she ate 12 sweets.

Your brother will give you  $\frac{3}{8}$  of 80, he will give you  $\frac{30p}{8}$ .

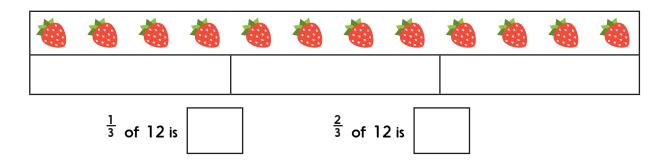
## A Bit Stuck?

## A dozen strawberries

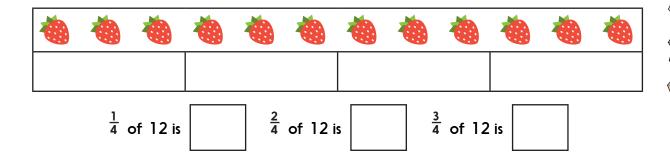
1. Draw or write the correct amounts of strawberries in each half:



2. Draw or write the correct amounts of strawberries in each third:



3. Draw or write the correct amounts of strawberries in each quarter:



4. Draw or write the correct amounts of strawberries in each sixth:



$$\frac{1}{6}$$
 of 12 is

$$\frac{2}{6}$$
 of 12 is

$$\frac{3}{6}$$
 of 12 is

$$\frac{4}{6}$$
 of 12 is

$$\frac{4}{6}$$
 of 12 is

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# Investigation Model fractions

• We can draw a bar model to show  $3 \times 8 = 24$ :

24								
8	8	8						
$\frac{1}{3}$ of 24 is	$\frac{2}{3}$ of 24 is							

٠١٠

3

+

%

4

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٠١٠

3

+

%

• We can draw a bar model to show  $8 \times 3 = 24$ :

24								
3	3	3	3	3	3	3	3	
1/8 of 2	24 is	$\frac{3}{8}$ of 24 is		5 8 of 24 is	7/8 of	f 24 is		

What other bar models can you draw for 24?
 Each of the small bars underneath needs to be the same size in each model.

24								
?	?	?	?	?	?			

What other fractions can you find of 24?

## BIG Challenge

Draw as many different bar models as possible, with 40 at the top and equal smaller bars underneath.

Write as many fractions of 40 as you can.

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