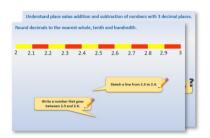
### Week 10, Day 4

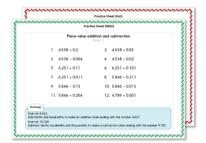
### Find unit fractions of amounts

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.

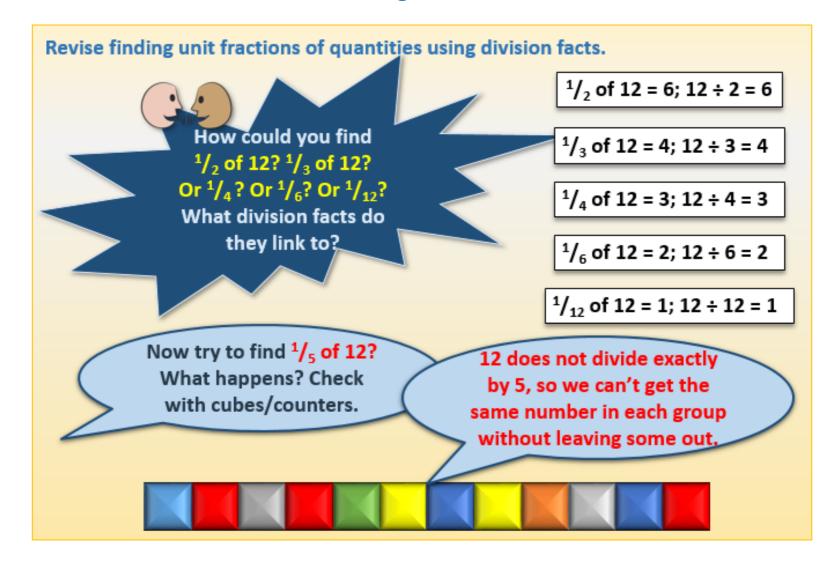


3. Finding it tricky? That's OK... have a go with a grown-up at A Bit Stuck?

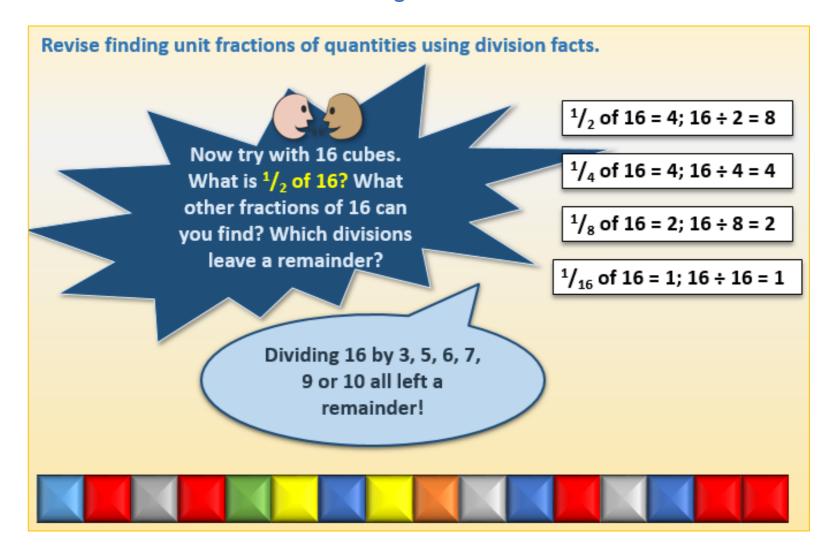


4. Think you've cracked it? Whizzed through the Practice Sheets? Have a go at the **Investigation**...

### **Learning Reminders**



### **Learning Reminders**



# Practice Sheet Mild

### Finding unit fractions

Solve the following using cubes or counters to help check your answers:

1. 
$$\frac{1}{2}$$
 of 8

2. 
$$\frac{1}{3}$$
 of 9

3. 
$$\frac{1}{3}$$
 of 15

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

5. 
$$\frac{1}{2}$$
 of 18

6. 
$$\frac{1}{3}$$
 of 18

7. 
$$\frac{1}{5}$$
 of 15

8. 
$$\frac{1}{2}$$
 of 14

9. 
$$\frac{1}{3}$$
 of 21

10. 
$$\frac{1}{5}$$
 of 25

## Practice Sheet Hot

### Finding unit fractions

Solve the following:

1. 
$$\frac{1}{2}$$
 of 24

7. 
$$\frac{1}{10}$$
 of 40

2. 
$$\frac{1}{4}$$
 of 24

8. 
$$\frac{1}{3}$$
 of 18

3. 
$$\frac{1}{8}$$
 of 24

9. 
$$\frac{1}{5}$$
 of 25

4. 
$$\frac{1}{2}$$
 of 40

10. 
$$\frac{1}{4}$$
 of 28

5. 
$$\frac{1}{4}$$
 of 40

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

6. 
$$\frac{1}{5}$$
 of 40

12. 
$$\frac{1}{3}$$
 of 27

### Challenge

1. 
$$\frac{1}{2}$$
 of 80

3. 
$$\frac{1}{8}$$
 of 80

2. 
$$\frac{1}{4}$$
 of 80

4. 
$$\frac{1}{10}$$
 of 80

### **Practice Sheet Answers**

#### **Practice Sheet (Mild)**

- 1. ½ of 8 is 4
- 2. ⅓ of 9 is 3
- 4. ¼ of 20 is 5
- 5. ½ of 18 is 9
- 6. ½ of 18 is 6
- 8. ½ of 14 is 7
- 9. ½ of 21 is 7

#### Practice Sheet (Hot)

- 1. ½ of 24 is 12
- 2. ¼ of 24 is 6
- 3. % of 24 is 3
- 4. ½ of 40 is 20
- 5. ¼ of 40 is 10
- 7. ½ of 40 is 4
- 8. ½ of 18 is 6
- 9. ½ of 25 is 5
- 10. ¼ of 28 is 7
- 10. /4 01 20 13 /
- 11. ½ of 22 is 11
- 12. ½ of 27 is 9

### A Bit Stuck? Decorate the cake

#### Work in pairs

#### Things you will need:

- Cake outlines
- Counters (e.g. Smarties)
- Recording sheet
- Coloured pencils

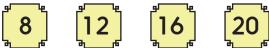


#### What to do:











- Choose a number.
- · Split this number of Smarties (counters) between the four quarters of the big cake divided into quarters.
- Draw the Smarties on a blank cake divided into quarters on the recording sheet.
- Repeat twice more.











- Choose a number.
- Split this number of counters between the thirds of the big cake divided into three equal parts.
- Draw the Smarties on a blank cake divided into thirds on the recording sheet.
- Repeat at least twice more with different numbers.

### S-t-r-e-t-c-h:

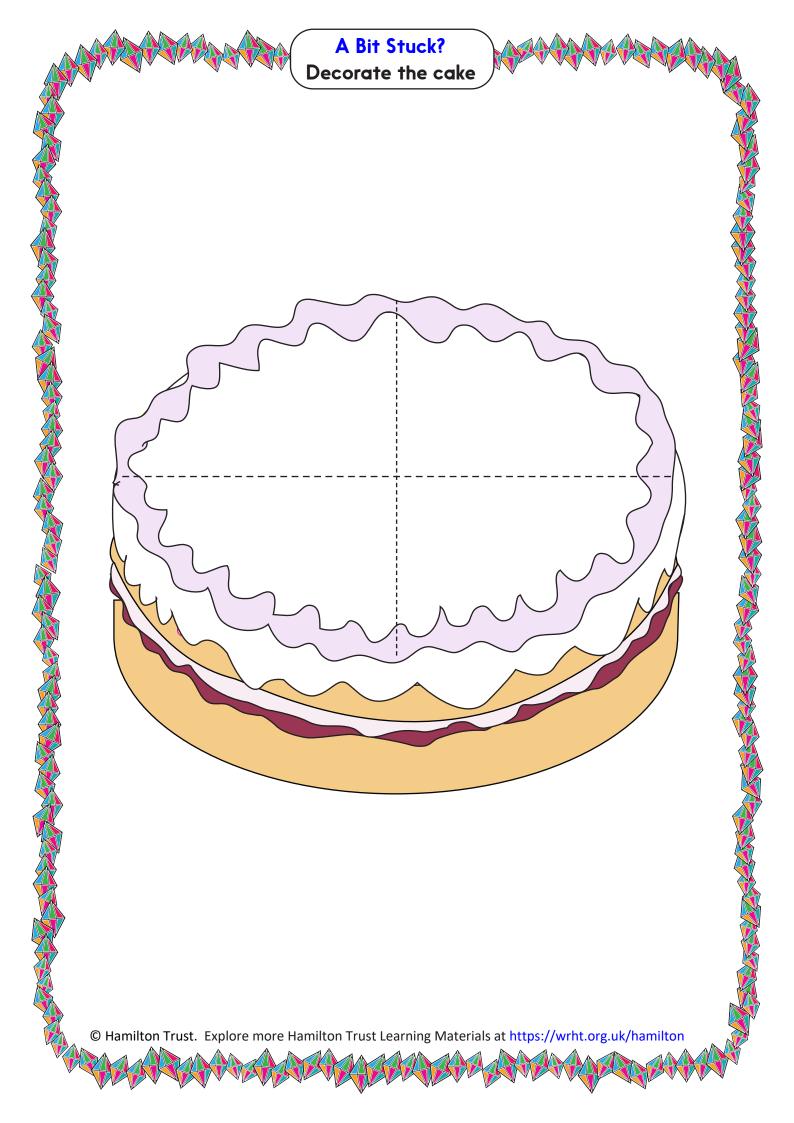
 $\frac{1}{4}$  of 8 is  $\frac{1}{2}$  of 8 is

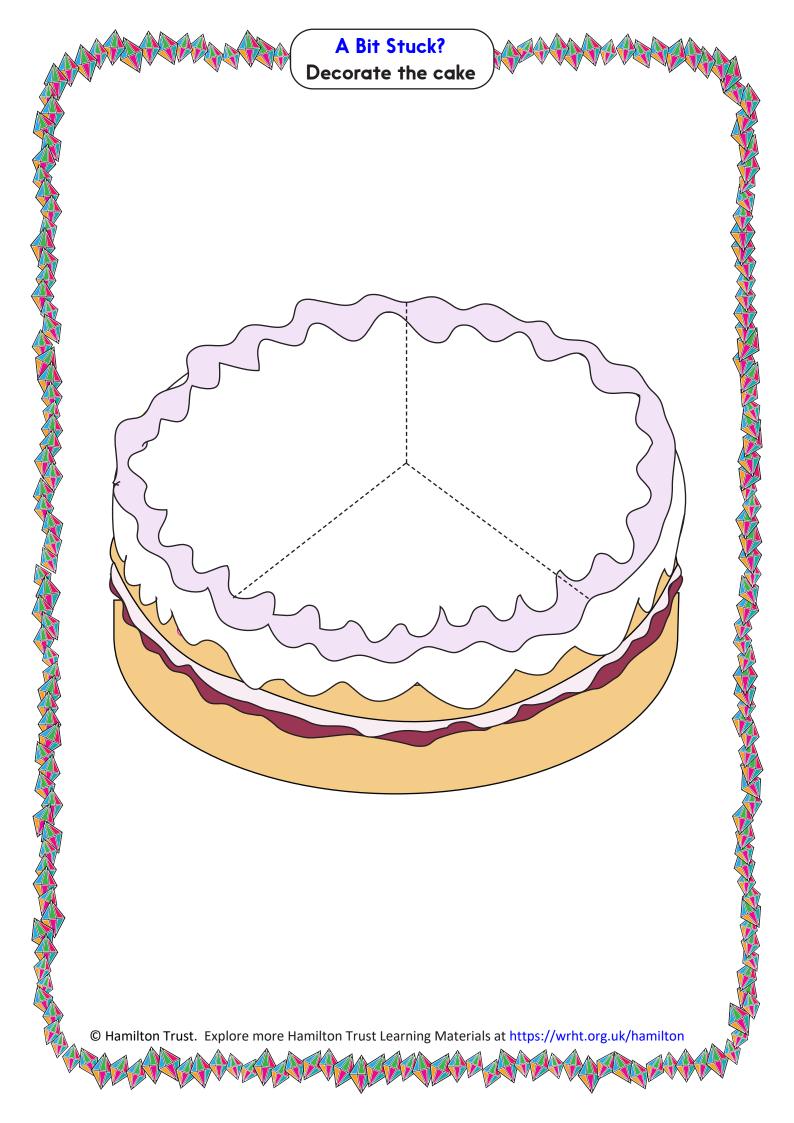
 $\frac{1}{4}$  of 16 is  $\frac{1}{2}$  of 16 is

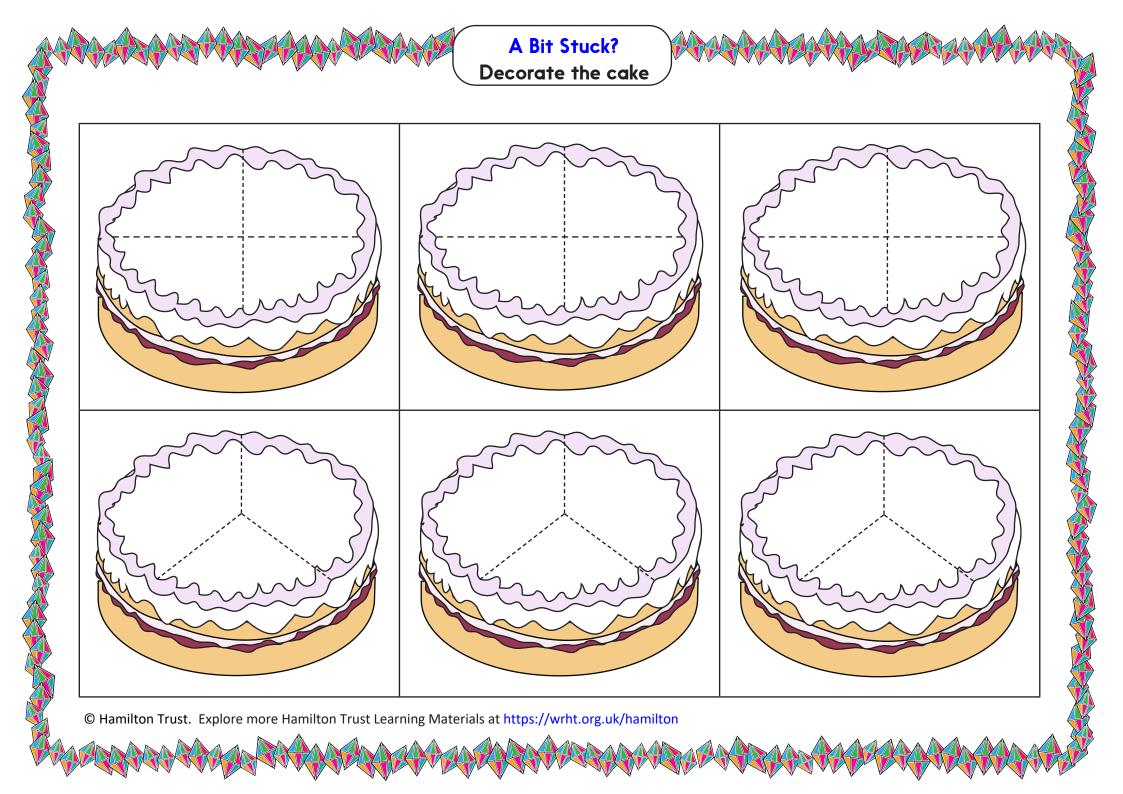
#### Learning outcomes:

- I understand that halves and quarters are equal parts of a whole.
- I can find  $\frac{1}{2}$  and  $\frac{1}{4}$  of numbers (whole number answers).
- I am beginning to understand that I can halve twice to find  $\frac{1}{4}$ .

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# Investigation Fraction facts



Find as many different unit fractions of 24 as you can, making a list of them. Each answer must be a whole number.

Can you find all seven?

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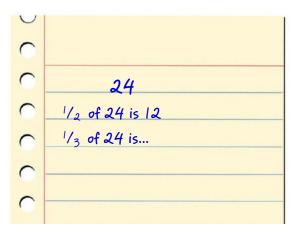
1/2

CL

1/

٥.

Repeat with your choice of at least three of these numbers:



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40

3

4

%

%

4

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×

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40

3

4

%



Which of the numbers you chose had most fraction facts? Can you explain why you think that is?

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 $2 + ? = x cm^3 \frac{1}{2} \div \frac{1}{2} \Rightarrow m^2 + \% < \frac{5}{6} - cm ? + \frac{1}{2}$