# Week 7, Day 5 <br> Fractions of amounts (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.

2. 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. Have I mastered the topic? A few questions to Check your understanding. Fold the page to hide the answers!
[^0]
## Learning Reminders

Find unit fractions of quantities and link to division facts.


Imagine folding this strip of $\mathbf{1 2}$ shapes in half...

We can also use a bar model to show half of 12.

| 00000000000 |  |
| :---: | :---: |
| 6 | 6 |

To find $1 / 2$, divide by 2 .


## Learning Reminders

Find unit fractions of quantities and link to division facts.


## Learning Reminders



## Practice Sheet Mild

Fractions practice

$\frac{1}{5}$ of $20=\square$

© Hamilton Trust Explore more Hamilton Trust Learning Materials at https://wrht.org.uk/hamilton


## Challenge

What different fractions can you find of 36 ?

## Practice Sheet Answers

Fractions practice (Mild)

$$
\begin{array}{ll}
\frac{1}{2} \text { of } 16=8 & \frac{1}{2} \text { of } 40=20 \\
\frac{1}{4} \text { of } 16=4 & \frac{1}{4} \text { of } 40=10 \\
& \frac{1}{5} \text { of } 40=8 \\
\frac{1}{2} \text { of } 20=10 & \frac{1}{5} \text { of } 35=7 \\
\frac{1}{4} \text { of } 20=5 & \frac{1}{2} \text { of } 14=7 \\
\frac{1}{5} \text { of } 20=4 & \frac{1}{4} \text { of } 28=7
\end{array}
$$

Fractions practice (Hot)

| $\frac{1}{2}$ of $16=8$ | $\frac{1}{2}$ of $20=10$ |
| :--- | :--- |
| $\frac{1}{4}$ of $16=4$ | $\frac{1}{4}$ of $20=5$ |
| $\frac{1}{8}$ of $16=2$ | $\frac{1}{5}$ of $20=4$ |
|  | $\frac{1}{10}$ of $20=2$ |
|  |  |
| $\frac{1}{2}$ of $30=15$ | $\frac{1}{2}$ of $40=20$ |
| $\frac{1}{3}$ of $30=10$ | $\frac{1}{4}$ of $40=10$ |
| $\frac{1}{5}$ of $30=6$ | $\frac{1}{5}$ of $40=8$ |
| $\frac{1}{10}$ of $30=3$ | $\frac{1}{8}$ of $40=5$ |
|  | $\frac{1}{10}$ of $40=4$ |

## Challenge

What different fractions can you find of 36?
Children's answers could include:
$\frac{1}{2}$ of $36=18 \quad \frac{1}{6}$ of $36=6 \quad \frac{1}{9}$ of $36=4$
$\frac{1}{4}$ of $36=9 \quad \frac{2}{6}$ of $36=12 \quad \frac{2}{9}$ of $36=8$
$\frac{3}{4}$ of $36=27 \quad \frac{3}{6}$ of $36=18 \quad \frac{4}{9}$ of $36=16$
$\frac{1}{3}$ of $36=12 \quad \frac{4}{6}$ of $36=24 \quad \frac{5}{9}$ of $36=20$
$\frac{2}{3}$ of $36=24 \quad \frac{5}{6}$ of $36=30 \quad \frac{7}{9}$ of $36=28$
$\frac{8}{9}$ of $36=32$

## A Bit Stuck? Alien adventure

## Work in pairs

Things you will need:

- An outline of a spaceship
- 30 counters/pennies
- A pencil


## What to do:

- The aliens are going on an adventure!
- Each $1 / 3$ of the spaceship must have the same number of aliens. Otherwise the spaceship will become unstable.
- Choose an alien with a number.


- Share the cubes equally between the three parts of the spaceship.
- Write the fraction sentence.
- Choose at least four other aliens with numbers to go on an adventure. Each time, work out how many aliens need to be in each $1 / 3$ of the spaceship.

S-t-r-e-t-c-h:
Find $1 / 3$ of $12,2 / 3$ of 12 and $3 / 3$ of 12 .
Find $1 / 3,2 / 3$ and $3 / 3$ of another number of aliens.

## Learning outcomes:

- I can understand that thirds are equal parts of a whole.
- I can find $1 / 3$ of numbers (whole number answers)
- I am beginning to find $2 / 3$ of numbers (whole number answers).



## Check your understanding: <br> Questions

Complete each sentence:
$1 / 3$ of $15=\square$
$1 / 5$ of $40=\square$
$1 / 6$ of $24=$ $\square$

Draw three bar models, one to represent each of these fraction problems.
$1 / 3$ of 24
$1 / 8$ of 24
$1 / 5$ of 30

## Answers on next page

## Check your understanding: <br> Answers

Complete each sentence:
$1 / 3$ of $15=5$
$1 / 5$ of $40=8$
$1 / 6$ of $24=4$

Draw three bar models, one to represent each of these fraction problems. A common error is to write the denominator number rather than the fractional amount in the bar model cells.
$1 / 3$ of $24=8$

| 24 |  |  |
| :---: | :---: | :---: |
| 8 | 8 | 8 |

$1 / 8$ of $24=3$

|  |  | 24 |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |

$1 / 5$ of $30=6$

| 30 |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :---: |
| 6 | 6 | 6 | 6 | 6 |  |


[^0]:    Identify the value of the ' 4 ' in the following numbers:

