# Year 2: Week 2, Day 2 <br> Find 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.

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!
$\qquad$

## Learning Reminders

Find $1 / 4$ of amounts by using number facts and sharing.


Learning Reminders
Find $1 / 3$ of amounts by using number facts and sharing.


## Practice Sheet Mild Halving and quartering

Complete the table by finding half, then a quarter of each of the numbers.

|  | $\frac{1}{2}$ | $\frac{1}{4}$ |
| :--- | :--- | :--- |
| 4 |  |  |
| 8 |  |  |
| 12 |  |  |
| 16 |  |  |
| 20 |  |  |
| 24 |  |  |
| 28 |  |  |
| 32 |  |  |
| 36 |  |  |

## Challenge

What do you notice about the numbers in the $\frac{1}{2}$ s column? What number would come next? What about the $\frac{1}{4}$ s column? How would this pattern continue?

## Practice Sheet Hot <br> Finding fractions of numbers

Find the following:

| $\frac{1}{4}$ of 16 | $\frac{1}{2}$ of 22 |
| :--- | :--- |
| $\frac{1}{4}$ of 8 | $\frac{1}{4}$ of 24 |
| $\frac{1}{4}$ of 32 | $\frac{1}{2}$ of 16 |
| $\frac{1}{4}$ of 28 | $\frac{1}{3}$ of 15 |
| $\frac{1}{3}$ of 12 | $\frac{1}{4}$ of 36 |
| $\frac{1}{3}$ of 6 | $\frac{1}{2}$ of 26 |
| $\frac{1}{3}$ of 9 | $\frac{1}{3}$ of 27 |
| $\frac{1}{3}$ of 21 | $\frac{1}{2}$ of 24 |
| $\frac{1}{4}$ of 20 | $\frac{1}{2}$ of 32 |
| $\frac{1}{3}$ of 24 | $\frac{1}{3}$ of 18 |

## Challenge

$\frac{1}{4}$ of a number is 10 . What is the number?
$\frac{1}{3}$ of the number is 1 . What is the number?
© Hamilton Trust

## Practice Sheets Answers

Halving and quartering (mild)

|  | $\frac{1}{2}$ | $\frac{1}{4}$ |
| :--- | :---: | :---: |
| 4 | 2 | 1 |
| 8 | 4 | 2 |
| 12 | 6 | 3 |
| 16 | 8 | 4 |
| 20 | 10 | 5 |
| 24 | 12 | 6 |
| 28 | 14 | 7 |
| 32 | 18 | 8 |
| 36 | 9 |  |

## Challenge

What do you notice about the numbers in the $\frac{1}{2} \mathrm{~s}$ column? Go up in 2 s . What number would come next? 20 What about the $\frac{1}{4}$ s column? Go up consecutively.
How would this pattern continue? 10, 11, 12, etc.

Finding fractions of numbers (hot)

| $\frac{1}{4}$ of 16 | 4 | $\frac{1}{2}$ of 22 | 11 |
| :--- | :--- | :--- | :--- |
| $\frac{1}{4}$ of 8 | 2 | $\frac{1}{4}$ of 24 | 6 |
| $\frac{1}{4}$ of 32 | 8 | $\frac{1}{2}$ of 16 | 8 |
| $\frac{1}{4}$ of 28 | 7 | $\frac{1}{3}$ of 15 | 5 |
| $\frac{1}{3}$ of 12 | 4 | $\frac{1}{4}$ of 36 | 9 |
| $\frac{1}{3}$ of 6 | 2 | $\frac{1}{2}$ of 26 | 13 |
| $\frac{1}{3}$ of 9 | 3 | $\frac{1}{3}$ of 27 | 9 |
| $\frac{1}{3}$ of 21 | 7 | $\frac{1}{2}$ of 24 | 12 |
| $\frac{1}{4}$ of 20 | 5 | $\frac{1}{2}$ of 32 | 16 |
| $\frac{1}{3}$ of 24 | 8 | $\frac{1}{3}$ of 18 | 6 |





## Check your understanding

## Questions

Complete each sentence.
$1 / 4$ of 20 is $\qquad$ $1 / 3$ of 12 is $\qquad$ $1 / 2$ of 24 is $\qquad$

Look at this bar diagram. It shows that $1 / 4$ of 12 is 3 .

| 12 |  |  |  |
| :--- | :--- | :--- | :--- |
| 3 | 3 | 3 | 3 |

Write a fraction sentence to match each bar diagram below:

| 22 |  |
| :---: | :---: |
| 11 | 11 |


| 15 |  |  |
| :---: | :---: | :---: |
| 5 | 5 | 5 |


| 8 |  |  |  |  |
| :--- | :--- | :--- | :--- | :---: |
| 2 | 2 | 2 | 2 |  |

18 children are in a class and $1 / 3$ are boys. How many are girls?
10 of the 15 children in a class are girls. What fraction are boys?

## Check your understanding

Answers

Complete each sentence.
$1 / 4$ of 20 is 5 $1 / 3$ of 12 is 4 $1 / 2$ of 24 is 12

Some children may need a physical model to help solve these.

Look at this bar diagram. It shows that $1 / 4$ of 12 is 3 .

| 12 |  |  |  |
| :--- | :--- | :--- | :--- |
| 3 | 3 | 3 | 3 |

Write a fraction sentence to match each bar diagram below:

| 22 |  |
| :---: | :---: |
| 11 | 11 |

$1 / 2$ of 22 is 11

| 15 |  |  |
| :---: | :---: | :---: |
| 5 | 5 | 5 |

$1 / 3$ of 15 is 5

| 8 |  |  |  |
| :--- | :--- | :--- | :--- |
| 2 | 2 | 2 | 2 |

$1 / 4$ of 8 is 2

18 children are in a class and $1 / 3$ are boys. How many are girls?
12 are girls. 6 are boys $(1 / 3)$. An answer of 6 suggests that the question hasn't been read carefully.
10 of the 15 children in a class are girls. What fraction are boys?
$5 / 15$ or $1 / 3$ since 5 out of 15 are boys.

