# Week 10, Day 3 <br> Find 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. Think you've cracked it? Whizzed through the Practice Sheets? Have a go at the Investigation...

## Learning Reminders


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## Learning Reminders



## Learning Reminders




## Practice Sheet Hot

Finding $\frac{1}{2} \frac{1}{4} \frac{3}{4} \frac{1}{3}$
Can you work out what $\frac{1}{2}, \frac{1}{4}, \frac{3}{4}$, and $\frac{1}{3}$ of your strip number is?
Can you complete the table:

| Full strip | $\frac{1}{2}$ | $\frac{1}{4}$ | $\frac{3}{4}$ | $\frac{1}{3}$ |
| :--- | :--- | :--- | :--- | :--- |
| 12 |  |  |  |  |
| 24 |  |  |  |  |
| 36 |  |  |  |  |
| 48 |  |  |  |  |

## Challenge

If we want to find $\frac{1}{2}, \frac{1}{3}$, and $\frac{1}{4}$, as we have here, there is a number bigger than 48 and less that 64 that works.
Can you explore what number that might be?
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## Practice Sheet Hot

Finding $\frac{1}{2} \frac{1}{4} \frac{3}{4} \frac{1}{3}$



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## Practice Sheet Answers

## Practice Sheet (Mild)

Golden syrup ( 12 tablespoons): $\frac{1}{2}=6, \frac{1}{3}=4, \frac{1}{4}=3$
Butter (24 tablespoons): $\frac{1}{2}=12, \frac{1}{3}=8, \frac{1}{4}=6$
Chocolate ( 48 squares): $\frac{1}{2}=24, \frac{1}{4}=12$
Cornflakes ( 36 cups): $\frac{1}{2}=18, \frac{1}{3}=12, \frac{1}{4}=9$

## Practice Sheet (Hot)

| Full strip | $\frac{1}{2}$ | $\frac{1}{4}$ | $\frac{3}{4}$ | $\frac{1}{3}$ |
| :--- | :---: | :---: | :---: | :---: |
| 12 | 6 | 3 | 9 | 4 |
| 24 | 12 | 6 | 18 | 8 |
| 36 | 18 | 9 | 27 | 12 |
| 48 | 24 | 12 | 36 | 16 |

## Challenge

a) Can you find the next two numbers after 48 that can be split into halves, quarters and thirds? 60, 72
b) What is the smallest number $>100$ that can be split into halves, quarters and thirds? 108

## 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 counters 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).



