# Week 10, Day 5 <br> Find non-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.

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!

## Learning Reminders

Find non-unit fractions of quantities using division and multiplication.


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3 in each, since
$24 \div 8=3$

$$
1 / 8 \text { of } 24=3
$$ Use this to find $3 / 8$ of $24,5 / 8$ of $24,2 / 8$ of 24 and $6 / 8$ of 24 , in each case by multiplying 3 by the numerator of the fraction.

$3 / 8$ of 24 is $3 \times 3,9$ $5 / 8$ of 24 is $5 \times 3,15$ $2 / 8$ of 24 is $2 \times 3,6$ $6 / 8$ of 24 is $6 \times 3,18$

## Practice Sheet Mild <br> Finding non-unit fractions

Solve the following:

1. $\frac{1}{4}$ of $20=$ $\frac{3}{4}$ of $20=$
2. $\frac{1}{3}$ of $18=$ $\frac{2}{3}$ of $18=$
3. $\frac{1}{5}$ of $45=$ $\frac{3}{5}$ of $45=$
4. $\frac{1}{8}$ of $24=$ $\frac{3}{8}$ of $24=$
5. $\frac{1}{10}$ of $70=$ $\frac{6}{10}$ of $70=$
6. $\frac{1}{4}$ of $28=$ $\frac{3}{4}$ of $28=$
7. $\frac{1}{3}$ of $27=$ $\frac{2}{3}$ of $27=$
8. $\frac{1}{5}$ of $35=$ $\frac{4}{5}$ of $35=$

## Challenge

1. $\frac{5}{8}$ of $32=$
2. $\frac{3}{10}$ of $50=$

## Practice Sheet Hot <br> Finding non-unit fractions

Solve the following:

1. $\frac{3}{4}$ of $20=$
2. $\frac{3}{4}$ of $28=$
3. $\frac{2}{3}$ of $18=$
4. $\frac{2}{3}$ of $27=$
5. $\frac{3}{5}$ of $45=$
6. $\frac{4}{5}$ of $35=$
7. $\frac{3}{8}$ of $24=$
8. $\frac{5}{8}$ of $32=$
9. $\frac{6}{10}$ of $70=$
10. $\frac{3}{10}$ of $50=$

## Challenge

Peter has $\frac{3}{4}$ of $£ 32$. Alison has $\frac{4}{5}$ of $£ 30$.
Who has the most money?

## Practice Sheet Answers

## Practice Sheet (Mild)

1. $1 / 4$ of $20=5 \quad 3 / 4$ of $20=15$
2. $1 / 3$ of $18=6 \quad 2 / 3$ of $18=12$
3. $1 / 5$ of $45=9 \quad 3 / 5$ of $45=27$
4. $1 / 8$ of $24=3 \quad 3 / 8$ of $24=9$
5. $1 / 10$ of $70=7 \quad 6 / 10$ of $70=42$
6. $1 / 4$ of $28=7 \quad 3 / 4$ of $28=21$
7. $1 / 3$ of $27=9 \quad 2 / 3$ of $27=18$

## Challenge

1. $5 / 8$ of $32=20$
2. $3 / 10$ of $50=15$

## Challenge

Peter has $3 / 4$ of $£ 32$ which is $£ 24$. Alison has $4 / 5$ of $£ 30$ which is $£ 24$. They both have the same amount of money.

## A Bit Stuck? Fruity fractions

Draw or write the correct amounts of pineapples in each third.


Draw or write the correct numbers of pineapples in each fifth.

|  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |

$\frac{1}{5}$ of 15 is__ $\frac{2}{5}$ of 15 is__ $\frac{3}{5}$ of 15 is__ $\frac{4}{5}$ of 15 is $\qquad$
Draw or write the correct numbers of cherries in each third.

$\frac{1}{3}$ of 18 is $\qquad$ $\frac{2}{3}$ of 18 is $\qquad$
Draw or write the correct numbers of cherries in each sixth.

$\frac{1}{6}$ of 18 is $-\frac{2}{6}$ of 18 is $-\frac{3}{6}$ of 18 is $-\frac{4}{6}$ of 18 is $-\frac{5}{6}$ of 18 is $\qquad$

## Check your understanding: Questions

## True or false?

- A piece of paper folded equally in 3 , then folded in half is divided into sixths when you open it out.
- $1 / 3$ of a piece of paper is larger than $2 / 6$ of the same piece.
- Two eighths make a quarter.
- $2 / 5$ of 5 is 2 .
- $3 / 8$ of 16 is 5 .

Draw a bar model to represent each question:
$3 / 8$ of 32 ?
$4 / 5$ of 40 ?
$5 / 6$ of 42 ?
Now write the answers.

Write < or > or = between these two statements:

$$
3 / 5 \text { of } 40 \quad 2 / 3 \text { of } 30
$$

## Answers are on the next page

## Check your understanding:

## Answers

## True or false?

- A piece of paper folded equally in 3 , then folded in half is divided into sixths when you open it out. True.
- $1 / 3$ of a piece of paper is larger than $2 / 6$ of the same piece. False, they are the same since $1 / 3$ and $2 / 6$ are equivalent fractions.
- Two eighths make a quarter. True.
- $2 / 5$ of 5 is 2 . True.
- $3 / 8$ of 16 is 5 . False it is 6 .

Draw a bar model to represent each question:
$3 / 8$ of 32 ? 12 2 32

|  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |

$4 / 5$ of 40 ? 32

| 40 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| 8 | 8 | 8 | 8 | 8 |

$5 / 6$ of 42? 35

| 42 |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :---: |
| 7 | 7 | 7 | 7 | 7 | 7 |  |

Write < or > or = between these two statements:
$3 / 5$ of $40>2 / 3$ of 30
$3 / 5$ of $40=24$ and $^{2} / 3$ of $30=20$, so $3 / 5$ of 40 is the greater.

