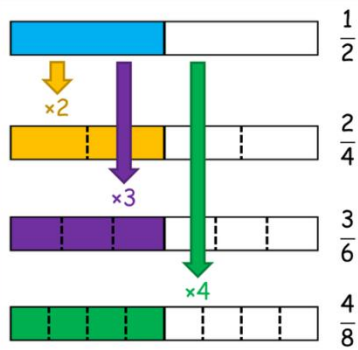
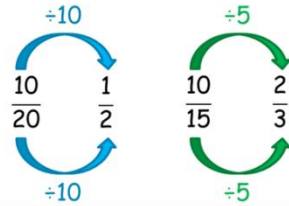


## Equivalent fractions

You can find equivalent fractions quickly by multiplying the numerator and denominator by the same number.



To cancel a fraction to its simplest form, divide the numerator and denominator by the same amount.



### Top Tip

Learn your times tables thoroughly to make simplifying fractions easier to do.



Example:  $\frac{1}{8} + \frac{2}{3} = \frac{19}{24}$

How To:

Step 1: Find a common denominator

$$8 \times 3 = 24$$

Step 2: Make equivalent fractions with the new denominator

$$\frac{1}{8} = \frac{3}{24} \quad \frac{2}{3} = \frac{16}{24}$$

Step 3: Add the numerators

$$\frac{3}{24} + \frac{16}{24} = \frac{19}{24}$$

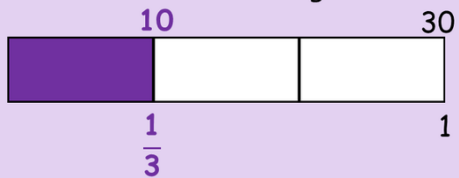
Step 4: Reduce the fraction if needed

## Finding fractions of amounts

The **denominator** tells us how many parts to divide into.

Finding  $\frac{1}{3}$  of an amount is the same as dividing that amount by 3.

So  $\frac{1}{3}$  of 30 = 10



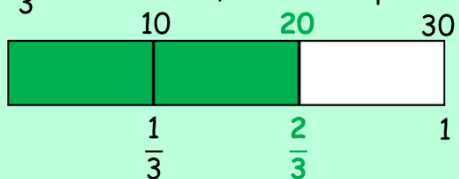
$$30 \div 3 = 10$$

The **numerator** tells us how many parts we want.

If we're asked to find  $\frac{2}{3}$  of an amount, we need 2 parts.

If  $\frac{1}{3}$  of 30 = 10

Then  $\frac{2}{3}$  of 30 = 20



$$10 \times 2 = 20$$

AP

3

Fractions

Decimals

Percentages

Converting Fraction to Decimal or Decimal to Percentage

Fractions

Divide  
Numerator by  
Denominator

Decimal

Multiply by  
100

Percentage

Converting Percentage to Decimal or Decimal to Fraction

Percentage

Divide by  
100

Decimal

Convert to  
Fraction

Fraction

$$\frac{1}{2} \rightarrow \frac{\text{Numerator}}{\text{Denominator}}$$

When converting to fractions: find the denominator and then cancel down if necessary

'Per cent' (%) means 'out of 100'. 'Of' means 'multiply'

$\frac{1}{2} = \frac{\square}{4}$	$\frac{1}{3} = \frac{\square}{6}$	$\frac{2}{6} = \frac{\square}{12}$
$\frac{1}{2} = \frac{\square}{8}$	$\frac{1}{3} = \frac{\square}{12}$	$\frac{2}{6} = \frac{\square}{3}$
$\frac{2}{4} = \frac{\square}{8}$	$\frac{4}{8} = \frac{\square}{2}$	$\frac{4}{12} = \frac{\square}{3}$
$\frac{2}{4} = \frac{\square}{2}$	$\frac{4}{8} = \frac{\square}{4}$	$\frac{4}{12} = \frac{\square}{6}$

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$$\frac{5}{6} - \frac{2}{5} =$$

$$\frac{5}{6} - \frac{1}{4} =$$

$$\frac{11}{12} - \frac{5}{6} =$$

$$\frac{5}{6} - \frac{5}{9} =$$

$$\frac{2}{3} + \frac{1}{2} =$$

$$\frac{5}{8} - \frac{5}{8} =$$

$$\frac{4}{5} + \frac{4}{9} =$$

$$\frac{5}{8} + \frac{3}{10} =$$

$$\frac{2}{3} - \frac{1}{4} =$$

$$\frac{3}{4} + \frac{7}{12} =$$













$$\frac{3}{8} - \frac{1}{9} =$$

$$\frac{3}{8} + \frac{3}{4} =$$

$$\frac{7}{8} - \frac{5}{9} =$$

$$\frac{7}{8} + \frac{8}{9} =$$

$$\frac{1}{2} - \frac{3}{8} =$$

$\frac{5}{6}$ of £30 	$\frac{1}{2}$ of £40 
$\frac{1}{4}$ of £100 	$\frac{6}{10}$ of £520 
$\frac{2}{3}$ of £600 	$\frac{5}{7}$ of £350 
$\frac{9}{10}$ of £180 	$\frac{7}{9}$ of £180 
$\frac{5}{8}$ of £240 	$\frac{1}{3}$ of £90 
$\frac{1}{5}$ of £500 	$\frac{4}{8}$ of £160 

# Assessment

## Point

### 3

A. Convert to decimals:

1)  $\frac{1}{4}$     2)  $\frac{5}{6}$     3)  $\frac{2}{3}$

B. Convert to fractions:

1) 0.2    2) 0.75    3) 7.2