

# Converting Fractions, Decimals and Percentages

For AQA GCSE Mathematics (8300) • Foundation tier

Name \_\_\_\_\_

Total marks: **21**

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Answer **all** questions in the spaces provided. Show your working: marks are given for correct method.

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- 1** Complete the table.  
Give fractions in their simplest form.

| Fraction      | Decimal | Percentage |
|---------------|---------|------------|
| $\frac{1}{4}$ |         |            |
|               | 0.6     |            |
|               |         | 5%         |

**[3 marks]**

- 2** (a) Write  $\frac{11}{25}$  as a percentage.

**[1 mark]**

Answer \_\_\_\_\_

- (b) Write 0.08 as a fraction in its simplest form.

**[1 mark]**

Answer \_\_\_\_\_

- (c) Write 125% as a decimal.

**[1 mark]**

Answer \_\_\_\_\_

- (d) Write  $\frac{5}{8}$  as a decimal.

**[1 mark]**

Answer \_\_\_\_\_

- 3** Circle the fraction that is equal to 40%

**[1 mark]**

|                |
|----------------|
| $\frac{1}{40}$ |
|----------------|

|               |
|---------------|
| $\frac{1}{4}$ |
|---------------|

|               |
|---------------|
| $\frac{2}{5}$ |
|---------------|

|                 |
|-----------------|
| $\frac{40}{10}$ |
|-----------------|

- 4 Grace says,  
 $\frac{1}{5} = 0.5$

Is she correct? Tick a box.  
Give a reason for your answer.

[1 mark]

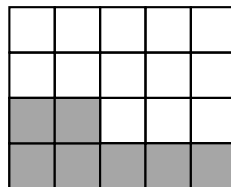
☐ Yes

☐ No

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- 5 Here is a shape made from squares.



What percentage of the shape is shaded?

[2 marks]

Answer \_\_\_\_\_ %

- 6 Write  $\frac{2}{3}$  as a percentage. Give your answer to 1 decimal place.

[1 mark]

Answer \_\_\_\_\_ %

- 7 Write these in order of size, starting with the smallest.

0.4       $\frac{3}{8}$       42%       $\frac{9}{20}$

[2 marks]

Answer \_\_\_\_\_

- 8 Asha scored 34 out of 40 in a test.  
Ben scored 42 out of 50 in a different test.

Who scored the higher percentage?  
You must show your working.

[2 marks]

Answer \_\_\_\_\_

- 9 Three netball players each took shots at goal in a season.  
The proportion of her shots that each player scored is shown.

| Player            | Rhiannon | Nerys         | Ifeoma |
|-------------------|----------|---------------|--------|
| Proportion scored | 0.805    | $\frac{4}{5}$ | 81%    |

Write the three names in order, starting with the player who scored the **greatest** proportion of her shots.

[2 marks]

Answer \_\_\_\_\_

**10** Some students each chose their favourite sport.

$\frac{3}{8}$  of the students chose football.

0.25 of the students chose tennis.

15% of the students chose swimming.

The rest of the students chose running.

What percentage of the students chose running?

**[3 marks]**

Answer \_\_\_\_\_ %