

Simplifying and Ordering Fractions

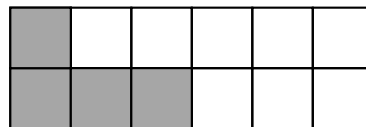
For AQA GCSE Mathematics (8300) • Foundation tier

Name _____

Total marks: **23**

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

- 1** Here is a shape made from squares.



What fraction of the shape is shaded?
Give your answer in its simplest form.

[2 marks]

Answer _____

- 2** Write each fraction in its simplest form.

(a) $\frac{12}{18}$

[1 mark]

Answer _____

(b) $\frac{35}{56}$

[1 mark]

Answer _____

- 3 Circle the fraction that is **not** equivalent to $\frac{3}{4}$

[1 mark]

$$\frac{6}{8}$$

$$\frac{9}{12}$$

$$\frac{12}{15}$$

$$\frac{15}{20}$$

- 4 Write these fractions in order of size.
Start with the smallest fraction.

$$\frac{5}{12}$$

$$\frac{3}{8}$$

$$\frac{1}{2}$$

$$\frac{1}{3}$$

[2 marks]

Answer _____

- 5 Write the missing number.

$$\frac{5}{8} = \frac{\boxed{}}{40}$$

[1 mark]

- 6 Mia says,
' $\frac{1}{9}$ is bigger than $\frac{1}{7}$ because 9 is bigger than 7'

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

[1 mark]

☐ Yes

☐ No

- 7 Write a fraction that is between $\frac{1}{4}$ and $\frac{1}{2}$

[1 mark]

Answer _____

- 8 (a) Write $\frac{17}{5}$ as a mixed number.

[1 mark]

Answer _____

- (b) Write $2\frac{3}{4}$ as an improper fraction.

[1 mark]

Answer _____

- 9 Circle the largest fraction.

[1 mark]

$$\frac{5}{6}$$

$$\frac{4}{5}$$

$$\frac{7}{9}$$

$$\frac{3}{4}$$

- 10 There are 30 students in a class.
12 of the students are boys.

What fraction of the class are girls?
Give your answer in its simplest form.

[2 marks]

Answer _____

- 11 A bottle holds 1.5 litres of water.
Orla drinks 450 ml of the water.
- What fraction of the water in the bottle does Orla drink?
Give your answer in its simplest form.

[2 marks]

Answer _____

- 12** Dev and Ffion share the driving on a car journey.
The whole journey takes 2 hours 15 minutes.
Dev drives for the first 1 hour 30 minutes.
Ffion drives for the rest of the journey.

What fraction of the journey time does Ffion drive?
Give your answer in its simplest form.

[2 marks]

Answer _____

- 13** The fraction $\frac{7}{12}$ is exactly halfway between $\frac{1}{4}$ and another fraction.
Work out the other fraction.

[2 marks]

Answer _____

- 14** Ravi says,
' $\frac{4}{5}$ is closer to 1 than $\frac{7}{6}$ is, because $\frac{7}{6}$ is bigger than 1'

Is Ravi correct?

Tick a box.

You must show your working.

[2 marks]

☐ Yes

☐ No
