

|                            |  |
|----------------------------|--|
| Total Marks<br>(out of 50) |  |
|----------------------------|--|

# 6.2

|      |  |
|------|--|
| Name |  |
| Date |  |

### Section 1:

- use common factors to simplify fractions; use common multiples to express fractions in the same denomination
- compare and order fractions, including fractions  $> 1$

1

Draw lines to join the fractions with the same value.

$$\frac{4}{6}$$

$$\frac{3}{30}$$

$$\frac{8}{10}$$

$$\frac{4}{100}$$

$$\frac{1}{25}$$

$$\frac{1}{5}$$

$$\frac{2}{3}$$

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

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

$$\frac{1}{10}$$

4 marks

2

Which is **more**  $\frac{3}{5}$  or  $\frac{7}{10}$  ?

Explain how you know.

1 mark

3

Write these fractions in their **simplest form**.

The first one has been done for you.

$$\frac{7}{14} = \boxed{\frac{1}{2}}$$

$$\frac{5}{25} = \boxed{\phantom{\frac{1}{2}}}$$

$$\frac{8}{20} = \boxed{\phantom{\frac{1}{2}}}$$

$$\frac{9}{72} = \boxed{\phantom{\frac{1}{2}}}$$

3 marks

4

Write these fractions in order, starting with the smallest.

$$\frac{3}{8} \quad \frac{1}{2} \quad \frac{1}{4} \quad \frac{5}{8}$$

smallest

1 mark

**5**

Convert these improper fractions into mixed numbers.

The first one has been done for you.

$$\frac{5}{3} = 1 \frac{2}{3}$$

$$\frac{17}{10} = \square$$

$$\frac{7}{3} = \square$$

$$\frac{17}{5} = \square$$

3 marks

**6**

Draw an arrow to show the positions on the number line.

The first one has been done for you.

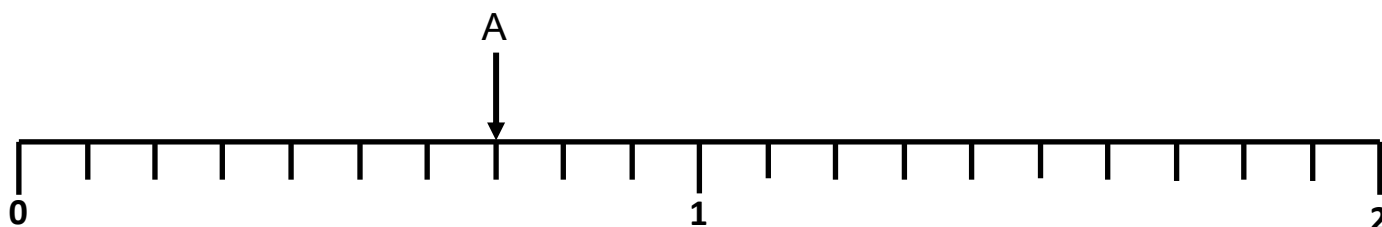
|   |                |
|---|----------------|
| A | $\frac{7}{10}$ |
|---|----------------|

|   |                 |
|---|-----------------|
| B | $\frac{19}{10}$ |
|---|-----------------|

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

|   |                |
|---|----------------|
| D | $\frac{2}{20}$ |
|---|----------------|

|   |               |
|---|---------------|
| E | $\frac{7}{5}$ |
|---|---------------|



4 marks

**7**

Look at these signs.



Write the correct sign in each box

$$\frac{12}{8} \square 1 \frac{1}{2}$$

$$\frac{16}{10} \square 1 \frac{1}{2}$$

$$\frac{7}{5} \square 1 \frac{1}{2}$$

3 marks



**Section 3:**

- multiply simple pairs of proper fractions, writing the answer in its simplest form
- divide proper fractions by whole numbers

**10**Complete the calculations. Writing the answers in its **simplest form**.

$$\frac{1}{4} \times \frac{1}{2} = \square$$

$$\frac{3}{5} \times \frac{1}{3} = \square$$

$$\frac{1}{2} \text{ of } \frac{3}{10} = \square$$

$$\frac{3}{20} \times \frac{2}{3} = \square$$

4 marks

**11**Abigail poured  $\frac{1}{5}$  of a packet of sweets into a bowlShe ate  $\frac{2}{3}$  of the sweets in the bowl.

What fraction of the packet of sweets did she eat?

1 mark

**12**

Complete the calculations.

$$\frac{1}{2} \div 4 = \square$$

$$\frac{1}{3} \div 2 = \square$$

$$\frac{3}{5} \div 2 = \square$$

$$\frac{9}{12} \div 9 = \square$$

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4 marks

**Section 4:**

identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places

13 Write the value of the underlined digit.

The first one has been done for you.

4.168

0.1

0.258

25.8468

2 marks

14 Underline the digit that is worth five hundredths.

524.756

1 mark

15 Complete the calculations.

$$9.1 \times 10 =$$

$$706.2 \div 100 =$$

$$0.285 \times \quad = 285$$

$$1970 \div \quad = 19.7$$

$$3795 \div 3.795 =$$

5 marks



**Section 6:**

recall and use equivalences between simple fractions, decimals and percentages, including in different contexts

18 Zac got 17 out of 20 in a maths test.

What was his score as a percentage?

 %

1 mark

19 Complete the table to show equivalent fractions, decimals and percentages.

| Fraction<br>(simplest form) | Decimal              | Percentage           |
|-----------------------------|----------------------|----------------------|
| $\frac{1}{2}$               | 0.5                  | 50%                  |
| <input type="text"/>        | <input type="text"/> | 25%                  |
| $\frac{1}{5}$               | <input type="text"/> | <input type="text"/> |
| <input type="text"/>        | 0.01                 | <input type="text"/> |
| <input type="text"/>        | <input type="text"/> | 7%                   |

4 marks