

Total Marks (out of 50)	
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6.1

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 Complete these equivalent fractions.

$$\frac{8}{10} = \frac{\boxed{}}{5}$$

$$\frac{12}{16} = \frac{3}{\boxed{}}$$

$$\frac{7}{25} = \frac{\boxed{}}{100}$$

$$\frac{30}{36} = \frac{5}{\boxed{}}$$

4 marks

2 Eve says that $\frac{2}{3}$ is more than $\frac{9}{15}$

Explain why she is correct.

1 mark

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

The first one has been done for you.

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

$$\frac{10}{25} = \boxed{\phantom{\frac{1}{2}}}$$

$$\frac{60}{70} = \boxed{\phantom{\frac{1}{2}}}$$

$$\frac{8}{64} = \boxed{\phantom{\frac{1}{2}}}$$

3 marks

4 Write these fractions in order, starting with the smallest.

$$\frac{2}{6} \quad \frac{1}{2} \quad \frac{1}{4} \quad \frac{2}{12}$$

smallest

1 mark

5

Convert these improper fractions into mixed numbers.

The first one has been done for you.

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

$$\frac{13}{10} = \square$$

$$\frac{9}{4} = \square$$

$$\frac{21}{5} = \square$$

3 marks

6

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

The first one has been done for you.

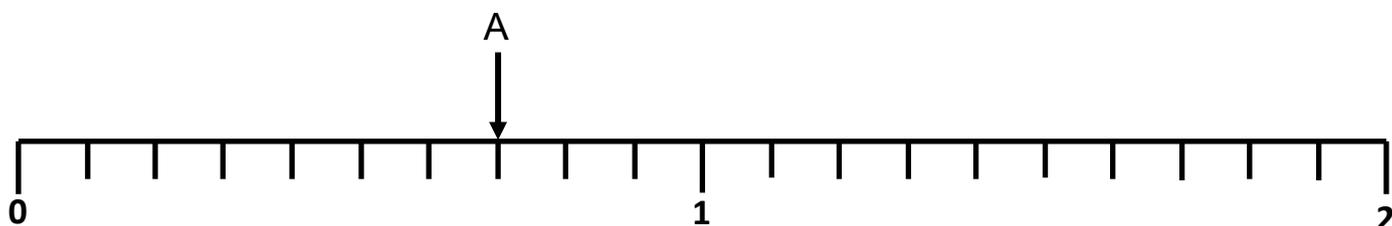
A	$\frac{7}{10}$
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B	$\frac{13}{10}$
---	-----------------

C	$\frac{3}{2}$
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D	$\frac{1}{5}$
---	---------------

E	$\frac{9}{5}$
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3 marks

7

Look at these signs.



Write the correct sign in each box

$$\frac{9}{6} \square 1 \frac{1}{2}$$

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

$$\frac{14}{10} \square 1 \frac{1}{2}$$

3 marks

Section 3:

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

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

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

$$\frac{3}{4} \times \frac{2}{3} = \square$$

$$\frac{1}{4} \text{ of } \frac{4}{5} = \square$$

$$\frac{1}{20} \times \frac{2}{5} = \square$$

_____ 4 marks

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

What fraction of the packet of sweets did she eat?

_____ 1 mark

12

Complete the calculations.

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

$$\frac{1}{4} \div 3 = \square$$

$$\frac{3}{4} \div 2 = \square$$

$$\frac{7}{8} \div 7 = \square$$

Page 5 of 8

_____ 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

3.07251.9152

2 marks

14

Underline the digit that is worth three hundredths.

324.736

1 mark

15

Complete the calculations.

$$12.6 \times 10 =$$

$$205.2 \div 100 =$$

$$0.407 \times$$

= 407

$$6420 \div$$

= 64.2

$$4980 \div 4.98 =$$

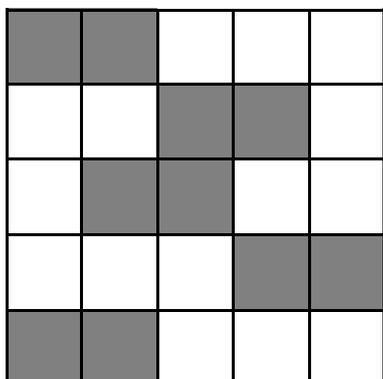
5 marks

Section 6:

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

18

What percentage of this square is shaded?


 %

1 mark

19

Draw lines to match the equivalent fractions, decimals and percentages.

The first one has been done for you.

$$\frac{1}{4}$$

$$0.025$$

$$50\%$$

$$\frac{4}{10}$$

$$0.25$$

$$4\%$$

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

$$0.4$$

$$40\%$$

$$\frac{1}{40}$$

$$0.5$$

$$2.5\%$$

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

$$0.04$$

$$25\%$$

4 marks