

Fractions

ANSWERS

No calculator | 30 minutes | Total marks: 28

Name Class

- 1 (a) Write $\frac{24}{36}$ in its simplest form.

Answer $\frac{2}{3}$ (1) [1 mark]

- (b) Complete the equivalent fraction. $\frac{3}{5} = \frac{\boxed{12}}{20}$ (1)

[1 mark]

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

$$\frac{3}{5} \quad \frac{7}{10} \quad \frac{2}{3} \quad \frac{11}{15}$$
$$\frac{18}{30} \quad \frac{21}{30} \quad \frac{20}{30} \quad \frac{22}{30} \quad (1)$$

Answer $\frac{3}{5}, \frac{2}{3}, \frac{7}{10}, \frac{11}{15}$ (1) [2 marks]

- 3 (a) Write $\frac{3}{8}$ as a decimal.

$$3 \div 8 \quad (1)$$

Answer 0.375 (1) [2 marks]

- (b) Write $\frac{7}{20}$ as a decimal.

Answer 0.35 (1) [1 mark]

4

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

Answer $3\frac{2}{5}$ (1)

[1 mark]

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

Answer $\frac{11}{4}$ (1)

[1 mark]

5

Work out

- (a) $\frac{2}{5} + \frac{1}{3}$

$$\frac{6}{15} + \frac{5}{15} \quad (1)$$

Answer $\frac{11}{15}$ (1)

[2 marks]

- (b) $\frac{5}{6} - \frac{1}{4}$

$$\frac{10}{12} - \frac{3}{12} \quad (1)$$

Answer $\frac{7}{12}$ (1)

[2 marks]

- (c) $1\frac{1}{2} + 2\frac{2}{3}$

Give your answer as a mixed number.

$$\frac{3}{2} + \frac{8}{3} \quad (1)$$

$$\frac{9}{6} + \frac{16}{6} = \frac{25}{6} \quad (1)$$

Answer $4\frac{1}{6}$ (1)

[3 marks]

6

Work out

Give each answer in its simplest form.

(a) $\frac{3}{4} \times \frac{2}{9}$

$$\frac{6}{36} \text{ (1)}$$

Answer $\frac{1}{6} \text{ (1)}$

[2 marks]

(b) $\frac{2}{3} \div \frac{4}{5}$

$$\frac{2}{3} \times \frac{5}{4} = \frac{10}{12} \text{ (1)}$$

Answer $\frac{5}{6} \text{ (1)}$

[2 marks]

7

(a) Work out $\frac{3}{8}$ of 56

$$56 \div 8 = 7 \text{ (1)}$$

Answer 21 (1)

[2 marks]

(b) A tank holds 240 litres of water when it is full.

The tank is $\frac{5}{6}$ full.

Work out how much water is in the tank.

$$240 \div 6 = 40 \text{ (1)}$$

Answer 200 (1)

litres

[2 marks]

8

Mia spends $\frac{1}{4}$ of her money on food and $\frac{2}{5}$ of her money on clothes.

What fraction of her money does she have left?

$$\frac{5}{20} + \frac{8}{20} = \frac{13}{20} \text{ (1)}$$

$$1 - \frac{13}{20} \text{ (1)}$$

Answer $\frac{7}{20} \text{ (1)}$

[3 marks]

9

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

$-\frac{1}{2}$

$-\frac{3}{4}$

$-\frac{1}{3}$

Answer $-\frac{3}{4}, -\frac{1}{2}, -\frac{1}{3}$ (1)

[1 mark]

Question	Topic	RAG
1	I can simplify fractions and find equivalent fractions	
2	I can order fractions	
3	I can change a fraction to a decimal	
4	I can change between mixed numbers and improper fractions	
5	I can add and subtract fractions and mixed numbers	
6	I can multiply and divide fractions	
7	I can find a fraction of an amount	
8	I can solve a problem with fractions	
9	I can order negative fractions	