

Fractions

ANSWERS

No calculator | 30 minutes | Total marks: 30

Name Class

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

$$\frac{2}{3} \quad \frac{5}{8} \quad \frac{7}{12} \quad \frac{3}{4}$$
$$\frac{16}{24} \quad \frac{15}{24} \quad \frac{14}{24} \quad \frac{18}{24} \quad (1)$$

Answer $\frac{7}{12}, \frac{5}{8}, \frac{2}{3}, \frac{3}{4} \quad (1)$ [2 marks]

2 Work out

(a) $\frac{3}{4} + \frac{2}{5}$

$$\frac{15}{20} + \frac{8}{20} \quad (1)$$

Answer $\frac{23}{20}$ or $1\frac{3}{20} \quad (1)$ [2 marks]

(b) $\frac{5}{6} - \frac{3}{8}$

$$\frac{20}{24} - \frac{9}{24} \quad (1)$$

Answer $\frac{11}{24} \quad (1)$ [2 marks]

3

Work out

Give each answer as a mixed number.

(a) $2\frac{1}{3} + 1\frac{3}{4}$

$$\frac{7}{3} + \frac{7}{4} \text{ (1)}$$

$$\frac{28}{12} + \frac{21}{12} = \frac{49}{12} \text{ (1)}$$

Answer $4\frac{1}{12} \text{ (1)}$

[3 marks]

(b) $4\frac{1}{5} - 2\frac{2}{3}$

$$\frac{21}{5} - \frac{8}{3} \text{ (1)}$$

$$\frac{63}{15} - \frac{40}{15} = \frac{23}{15} \text{ (1)}$$

Answer $1\frac{8}{15} \text{ (1)}$

[3 marks]

4

Work out

Give each answer in its simplest form.

(a) $\frac{3}{8} \times \frac{4}{9}$

$$\frac{12}{72} \text{ (1)}$$

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

[2 marks]

(b) $\frac{5}{6} \div \frac{2}{3}$

$$\frac{5}{6} \times \frac{3}{2} \text{ (1)}$$

Answer $\frac{5}{4} \text{ or } 1\frac{1}{4} \text{ (1)}$

[2 marks]

5

Work out

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

$$\frac{5}{2} \times \frac{8}{5} \text{ (1)}$$

$$\frac{40}{10} \text{ (1)}$$

Answer 4 (1)

[3 marks]

(b) $3\frac{3}{4} \div 1\frac{1}{2}$

$$\frac{15}{4} \div \frac{3}{2} \text{ (1)}$$

$$\frac{15}{4} \times \frac{2}{3} = \frac{30}{12} \text{ (1)}$$

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

[3 marks]

6

Write down the reciprocal of

(a) 7

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

[1 mark]

(b) $\frac{3}{5}$

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

[1 mark]

(c) $2\frac{1}{4}$

Answer $\frac{4}{9}$ (1)

[1 mark]

7

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

$$-\frac{1}{2} \quad -\frac{2}{3} \quad -\frac{3}{5}$$

$$-\frac{15}{30} \quad -\frac{20}{30} \quad -\frac{18}{30} \text{ (1)}$$

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

[2 marks]

8 A water tank is $\frac{3}{4}$ full.

$\frac{2}{5}$ of the water in the tank is used.

What fraction of the tank is now full?

$\frac{3}{5}$ of the water is left (1)

$$\frac{3}{4} \times \frac{3}{5} \text{ (1)}$$

Answer $\frac{9}{20}$ (1)

[3 marks]

Question	Topic	RAG
1	I can order fractions	
2	I can add and subtract fractions	
3	I can add and subtract mixed numbers	
4	I can multiply and divide fractions	
5	I can multiply and divide mixed numbers	
6	I can find reciprocals	
7	I can order negative fractions	
8	I can solve a problem using fractions	