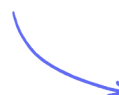


Fractions

Introduction to Fractions / Fractions of Amounts / Equivalent & Simplified Fractions / Mixed Numbers & Improper Fractions / Adding & Subtracting Fractions / Multiplying & Dividing Fractions

Easy (11 questions)	/19
Medium (12 questions)	/29
Hard (12 questions)	/35
Total Marks	/83

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Easy Questions

- 1 Write $\frac{60}{105}$ in its simplest form.

(1 mark)

2



- i) Write down the fraction of the rectangle that is shaded.

[1]

- ii) Find the percentage of the rectangle that is **not** shaded.

[1]

(2 marks)

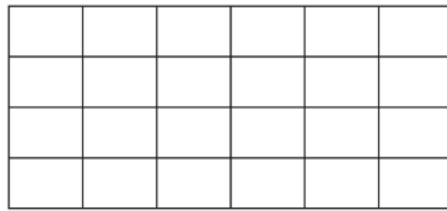
- 3 Write a fraction which is equivalent to $\frac{3}{5}$

(1 mark)

- 4 Write $\frac{28}{140}$ as a fraction in its simplest form

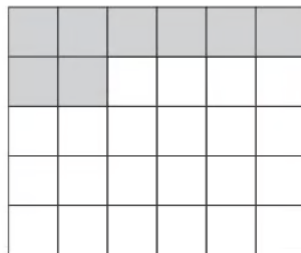
(1 mark)

5 Shade five-eighths of this rectangle.



(1 mark)

6 (a)



Write down the fraction of the rectangle that is shaded. Give your answer in its simplest form.

(2 marks)

(b) Write down a fraction that is equivalent to $\frac{7}{12}$.

(1 mark)

7 Work out $\frac{5}{6} + \frac{2}{3}$

You must show all your working and give your answer as a mixed number in its simplest form.

(3 marks)

- 8 Giulio's reaction times are measured in two games.

In the first game his reaction time is $\frac{1}{3}$ of a second.

In the second game his reaction time is $\frac{1}{8}$ of a second.

Find the difference between the two reaction times.

..... S

(1 mark)

- 9 Work out $\frac{8}{15} \times \frac{5}{6}$.

You must show all your working and give your answer as a fraction in its simplest form.

(2 marks)

- 10 Write down a fraction that completes this calculation.

$$\frac{13}{11} \times \frac{\text{.....}}{\text{.....}} = 1$$

(1 mark)

- 11 Work out $\frac{7}{8} + \frac{1}{6}$.

You must show all your working and give your answer as a mixed number in its simplest form.

(3 marks)

Medium Questions

- 1 i) Write down a fraction equivalent to $\frac{1}{15}$

[1]

- ii) Find a fraction that is greater than $\frac{1}{15}$ but less than $\frac{2}{15}$.

[1]

(2 marks)

- 2 There are 12 brass instruments in an orchestra.

$\frac{1}{3}$ are trumpets, 3 are trombones and the remainder are horns.

Find the number of horns.

(2 marks)

- 3 Records show that $\frac{3}{14}$ of the population of a particular type of fish, called mullet, caught are underweight.

In one day, 168 mullet are caught.

Work out the expected number of mullet that are underweight.

(1 mark)

- 4 Nora makes a birthday cake.

Nora has a packet containing 250g of cherries.

She uses $\frac{7}{10}$ of the cherries in the cake.

Find the mass of cherries she has left.

..... g

(2 marks)

- 5 Georgiana is travelling by train from Redtown to Teignley.

The price of a ticket is \$13.50.

Georgiana's ticket price is reduced by one-third because she is a student.

Work out how much she pays for her ticket.

\$

(2 marks)

- 6 Work out $1\frac{3}{4} - \frac{11}{12}$.

You must show all your working and give your answer as a fraction in its simplest form.

(3 marks)

- 7 Work out $\frac{9}{14} \div \frac{4}{7}$

You must show all your working and give your answer as a fraction in its simplest form.

(3 marks)

8 Work out $1\frac{7}{12} + \frac{13}{20}$

You must show all your working and give your answer as a mixed number in its simplest form.

(3 marks)

9 Work out $\frac{5}{16} \times 1\frac{1}{7}$.

You must show all your working and give your answer as a fraction in its simplest form.

(2 marks)

10 Work out $2\frac{1}{3} + \frac{4}{5}$.

You must show all your working and give your answer as a mixed number in its simplest form.

(3 marks)

11 Work out $2\frac{1}{4} \div \frac{3}{7}$

You must show all your working and give your answer as a mixed number in its simplest form.

(3 marks)

12 Work out $1\frac{1}{4} \div \frac{2}{7}$

(3 marks)

Hard Questions

- 1 A fuel tank holds 52 litres when full.
The tank is a quarter full.
Jim fills the tank with fuel that costs \$2.18 per litre.

Work out how much Jim pays.

\$

(3 marks)

- 2 Saskia has \$600.
She spends $\frac{1}{5}$ of the \$600 on a coat and gives $\frac{1}{3}$ of the \$600 to her son.

What fraction of the \$600 does she have left?
Give your answer in its simplest form.

(3 marks)

- 3 Jeff and his friends win a prize.
Jeff's share is \$160 which is $\frac{5}{11}$ of the prize.

Work out the value of the prize.

\$

(2 marks)

- 4 Find a fraction that makes this statement true.

$$\frac{7}{9} < \frac{\text{.....}}{\text{.....}} < \frac{8}{9}$$

(1 mark)

- 5 A car park has 880 spaces.

At 0600 one morning, $\frac{1}{40}$ of the 880 spaces are filled.

By 0630, no cars have left the car park but another $\frac{1}{5}$ of the 880 spaces are filled.

Work out the fraction of the 880 spaces that are empty at 06 30.

(3 marks)

- 6 Work out $2\frac{2}{3} \times 2\frac{3}{4}$.

You must show all your working and give your answer as a mixed number in its simplest form.

(3 marks)

- 7 Work out $\frac{5}{6} \div 1\frac{1}{3}$

You must show all your working and give your answer as a fraction in its simplest form.

(3 marks)

8 Work out $1\frac{1}{7} \times 2\frac{1}{10}$.

You must show all your working and give your answer as a mixed number in its simplest form.

(3 marks)

9 Work out $\left(2\frac{1}{3} - \frac{7}{8}\right) \times \frac{6}{25}$.

You must show all your working and give your answer as a fraction in its simplest form.

(4 marks)

10 Work out $3\frac{1}{4} - 2\frac{2}{3}$.

You must show all your working and give your answer as a fraction in its simplest form.

(3 marks)

11 Work out $3\frac{5}{8} - 1\frac{2}{3}$.

You must show all your working and give your answer as a mixed number in its simplest form.

(3 marks)

12 Work out $3\frac{1}{8} \div \frac{5}{12}$.

You must show all your working and give your answer as a mixed number in its simplest form.

(4 marks)