

QT Fractions - Multiply



1. Work out $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$

(2 marks)

2. Work out $\frac{1}{4} \times \frac{4}{9} = \frac{1}{9}$

(2 marks)

3. Work out $\frac{3}{4} \times \frac{4}{9} = \frac{1}{3}$

(2 marks)

4. Work out $1\frac{3}{4} \times 2\frac{2}{3} = 4\frac{2}{3}$

$1\frac{3}{4} \times 2\frac{2}{3} = \frac{7}{4} \times \frac{8}{3} = \frac{56}{12} = \frac{14}{3} = 4\frac{2}{3}$

(2 marks)

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

(2 marks)

$1\frac{2}{4} \times 2\frac{3}{10} = \frac{3}{2} \times \frac{13}{5} = \frac{39}{10} = 3\frac{9}{10} = 4\frac{3}{5}$

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6. Work out $2\frac{1}{4} \times 3\frac{3}{5}$

(2 marks)

$$2\frac{1}{4} \times 3\frac{3}{5} = \frac{9}{4} \times \frac{18}{5} = \frac{162}{20} = \underline{\underline{8\frac{1}{5}}}$$

7. Work out $2\frac{8}{12} \times 3$

(2 marks)

$$2\frac{8}{12} \times 3 = \frac{32}{4} \times \frac{3}{1} = \frac{96}{4} = \underline{\underline{24}}$$

8. Work out $\frac{2}{3}$ of 168

(2 marks)

$$\frac{2}{3} \times \frac{168}{1} = 3 \overline{)168} \begin{array}{r} 56 \\ \times 2 \\ \hline 112 \end{array} = \underline{\underline{112}}$$

9. Work out $\frac{5}{6}$ of 3000

(2 marks)

$$\frac{5}{6} \times \frac{3000}{1} = 6 \overline{)3000} \begin{array}{r} 500 \\ \times 5 \\ \hline 2500 \end{array} = \underline{\underline{2500}}$$

10. Work out $\frac{6}{7}$ of 448

(2 marks)

$$\frac{6}{7} \times 448 = 7 \overline{)448} \begin{array}{r} 64 \\ \times 6 \\ \hline 384 \end{array} = \underline{\underline{384}}$$

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11. Susie picked $\frac{7}{10}$ of the raspberries in her garden. She used $\frac{2}{5}$ of the raspberries to make some jam. What fraction of the garden's raspberries were used to make the jam?

(2 marks)

$$\frac{7}{10} \times \frac{2}{5} = \frac{7}{25}$$

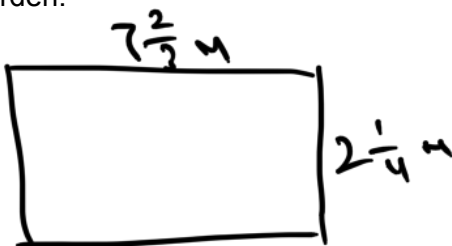
12. At an amusement arcade $\frac{2}{5}$ of the games are racing games. $\frac{2}{3}$ of the racing games are car racing. What fraction of the amusement arcade games are car racing?

(2 marks)

$$\frac{2}{3} \times \frac{2}{5} = \frac{4}{15}$$

13. A rectangular garden has a length of $7\frac{2}{3}$ m and a width of $2\frac{1}{4}$ m. Work out the area of the garden.

(3 marks)



$$7\frac{2}{3} \times 2\frac{1}{4}$$

$$\frac{23}{3} \times \frac{9}{4} = \frac{69}{4}$$

$$4 \sqrt{\frac{69}{4}} = \underline{\underline{17\frac{1}{4} \text{ m}^2}}$$

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14. Julliene spends $1\frac{1}{4}$ hours on her homework each night Monday to Friday. Mahi spends 50 minutes on her homework every night of the week. Who spends longer on their homework? (4 marks)

5 nights

Julliene $1\frac{1}{4} \times 5$ Mahi $\frac{50}{60} \times 7$

$$\frac{5}{4} \times \frac{5}{1} = \frac{25}{4}$$

$$= 6\frac{1}{4}$$

Julliene.

$$\frac{350}{60} = \frac{35}{6} = 6\frac{5}{6}$$

$$= 5\frac{5}{6}$$

15. Mr Richmond wants to paint the wall of his house. The wall measures $8\frac{5}{8}$ m x 10m. Each can of paint will cover 20m^2 .

- (a) How many cans of paint will Mr Richmond need to paint the wall of his house?
 (b) Each can costs £16.99. How much will it cost Mr Richmond to paint his house wall? (4 marks)

$$8\frac{5}{8} \times 10$$

$$\frac{69}{8} \times \frac{10}{1} = \frac{690}{8}$$

$$8 \overline{) 690} \begin{matrix} 86 \\ \underline{640} \\ 50 \end{matrix} = 86\frac{2}{8} = 86\frac{1}{4}$$

4 cans = 80m^2 (a) 5 cans required

(b) 16.99×5

$$\begin{array}{r} 1699 \\ \times \quad 5 \\ \hline 8495 \end{array} = \underline{\underline{£84.95}}$$

Total / 35 marks