

Multiplying Fractions

ANSWERS

1



Work out

$$1\frac{3}{4} \times 2\frac{2}{5}$$

$$\frac{7}{4} \times \frac{12}{5}$$

$$= \frac{7 \times 3}{1 \times 5} = \frac{21}{5}$$

Answer $4\frac{1}{5}$

2



Work out

$$\frac{2}{3} \times \frac{3}{4} \times \frac{4}{5} \times \frac{5}{6} \times \frac{6}{7} \times \frac{7}{8}$$

each top cancels the bottom before it

$$\text{leaving } \frac{2}{8} = \frac{1}{4}$$

Answer $\frac{1}{4}$

3



Work out

$$\frac{4}{9} \times 7 + \frac{4}{9} \times 2$$

$$\frac{4}{9} \times (7 + 2) = \frac{4}{9} \times 9$$

$$= \frac{36}{9} = 4$$

Answer 4

4



Work out

$$\left(\frac{1}{2} + \frac{1}{3}\right) \times \frac{3}{5}$$

$$\frac{1}{2} + \frac{1}{3} = \frac{5}{6}$$

$$\frac{5}{6} \times \frac{3}{5} = \frac{15}{30} = \frac{1}{2}$$

Answer $\frac{1}{2}$

5



Find the missing fraction.

$$\frac{5}{6} \times \frac{\square}{\square} = \frac{1}{3}$$

$$\frac{1}{3} = \frac{10}{30}$$

$$5 \times 2 = 10 \text{ and } 6 \times 5 = 30$$

Answer $\frac{2}{5}$

6



A positive fraction is multiplied by itself. The answer is $2\frac{7}{9}$. Find the fraction.

$$2\frac{7}{9} = \frac{25}{9}$$

$$\frac{5}{3} \times \frac{5}{3} = \frac{25}{9}$$

Answer $1\frac{2}{3}$

7



A square of side $\frac{1}{3}$ m is cut out of a square of side $\frac{3}{4}$ m. Find the area that is left.

$$\frac{9}{16} - \frac{1}{9}$$

$$= \frac{81}{144} - \frac{16}{144}$$

Answer $\frac{65}{144} \text{ m}^2$

8



Work out

$$\left(1\frac{1}{2}\right)^2 \times \frac{2}{3} - \frac{1}{4}$$

$$\left(1\frac{1}{2}\right)^2 = \frac{9}{4}, \text{ and } \frac{9}{4} \times \frac{2}{3} = \frac{3}{2}$$

$$\frac{6}{4} - \frac{1}{4} = \frac{5}{4}$$

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