

Examples

Workout



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Question 1: Work out each of the following multiplications.  
Give each answer in its simplest form.

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

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

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

(d)  $\frac{1}{3} \times \frac{1}{3}$

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

(f)  $\frac{3}{4} \times \frac{1}{4}$

(g)  $\frac{2}{3} \times \frac{1}{7}$

(h)  $\frac{5}{8} \times \frac{1}{3}$

(i)  $\frac{2}{3} \times \frac{1}{2}$

(j)  $\frac{1}{3} \times \frac{3}{4}$

(k)  $\frac{3}{10} \times \frac{1}{2}$

(l)  $\frac{2}{5} \times \frac{1}{4}$

(m)  $\frac{2}{7} \times \frac{3}{4}$

(n)  $\frac{5}{7} \times \frac{1}{10}$

(o)  $\frac{7}{12} \times \frac{2}{3}$

(p)  $\frac{6}{7} \times \frac{2}{3}$

(q)  $\frac{6}{7} \times \frac{2}{9}$

(r)  $\frac{3}{10} \times \frac{5}{6}$

(s)  $\frac{6}{15} \times \frac{3}{4}$

(t)  $\frac{3}{5} \times \frac{11}{15}$

(u)  $\frac{9}{20} \times \frac{10}{11}$

(v)  $\frac{21}{30} \times \frac{2}{3}$

(w)  $\frac{12}{25} \times \frac{5}{8}$

(x)  $\frac{8}{9} \times \frac{3}{16}$

Question 2: Work out the following multiplications  
Give your answers as simplified fractions.  
If any answers are top heavy fractions, write as mixed numbers.

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

(b)  $7 \times \frac{1}{8}$

(c)  $\frac{1}{10} \times 4$

(d)  $30 \times \frac{1}{2}$

(e)  $8 \times \frac{3}{4}$

(f)  $\frac{2}{3} \times 12$

(g)  $5 \times \frac{1}{3}$

(h)  $8 \times \frac{2}{5}$

(i)  $\frac{4}{5} \times 20$

(j)  $\frac{2}{7} \times 8$

(k)  $8 \times \frac{5}{4}$

(l)  $\frac{1}{5} \times 360$

Question 3: Work out the following divisions.  
Give your answers as simplified fractions.  
If any answers are top heavy fractions, write as mixed numbers.

(a)  $1\frac{2}{3} \times \frac{1}{4}$     (b)  $\frac{2}{5} \times 1\frac{1}{4}$     (c)  $\frac{3}{4} \times 1\frac{1}{2}$     (d)  $2\frac{1}{2} \times \frac{7}{10}$

(e)  $\frac{1}{4} \times 3\frac{1}{3}$     (f)  $1\frac{2}{3} \times 1\frac{1}{4}$     (g)  $4\frac{3}{5} \times 1\frac{2}{3}$     (h)  $1\frac{2}{11} \times \frac{8}{9}$

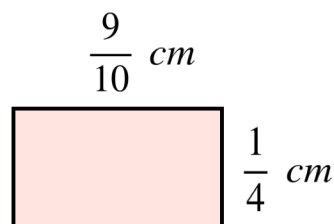
(i)  $2\frac{5}{6} \times 2\frac{1}{5}$     (j)  $1\frac{1}{9} \times 3\frac{3}{10}$     (k)  $3\frac{1}{8} \times 2\frac{1}{2}$     (l)  $2\frac{6}{7} \times 3\frac{1}{5}$

### Apply

Question 1: Work out  $\frac{4}{5} \times 1\frac{1}{2} \times \frac{7}{8}$

Question 2: Work out the missing number  $\square \div \frac{7}{15} = \frac{2}{3}$

Question 3: Find the area of this rectangle.  
Include suitable units.



Question 4: Alexis has a pet dog, Maxi.

Each day, Maxi eats  $\frac{2}{3}$  of a can of dog food.

Alexis is buying dog food for one week.

How many cans of dog food should Alexis buy?



## Multiplying Fractions

Video 142 on [www.corbettmaths.com](http://www.corbettmaths.com)

Question 5: Kelly spends  $\frac{1}{4}$  of her savings on driving lessons.  
 Kelly then spends  $\frac{2}{3}$  of her remaining savings on a new car.  
 What fraction of her savings has Kelly spent?

Question 6: Work out

$$\frac{9}{10} + \left(\frac{5}{7}\right)^2$$

Question 7: A wall measures  $3\frac{3}{4}m$  by  $4\frac{1}{3}m$

Each can of paint cover  $2.5m^2$  and costs £5.50



Work out the cost of painting the wall.

Question 8: Callum has completed his maths homework.  
 Can you spot any mistakes?

Work out

$$\frac{1}{3} \times \frac{1}{6}$$

$$\frac{2}{18} = \frac{1}{9}$$

Work out

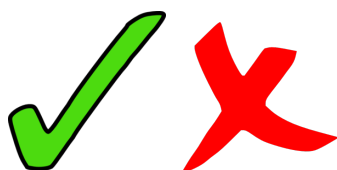
$$1\frac{3}{10} \times 2\frac{1}{2}$$

$$\frac{13}{10} \times \frac{5}{2} = \frac{75}{20}$$

$$60\frac{15}{20}$$

$$60\frac{3}{4}$$

Answers



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