

Multiplying proper fractions

Multiply proper fractions by whole numbers



Example

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

Challenge

Multiply these fractions using the diagrams to help you. Write your answer as a mixed number.

a $\frac{1}{4} \times 5$

b $\frac{1}{3} \times 5$

c $\frac{1}{4} \times 7$

d $\frac{1}{5} \times 6$

e $\frac{1}{6} \times 8$

f $\frac{1}{3} \times 7$

g $\frac{1}{2} \times 5$

h $\frac{1}{4} \times 9$

- 1 Write these calculations out as repeated addition, then work out the answer. Write your answer as an improper fraction and as a mixed number.

a $\frac{3}{5} \times 4$

b $\frac{4}{6} \times 2$

c $\frac{3}{4} \times 5$

d $\frac{2}{6} \times 4$

e $\frac{4}{7} \times 3$

f $\frac{6}{8} \times 5$

g $\frac{2}{9} \times 7$

h $\frac{6}{10} \times 3$

i $\frac{3}{6} \times 5$

j $\frac{4}{5} \times 6$

k $\frac{2}{8} \times 4$

l $\frac{3}{4} \times 7$



- 2 Use multiplication to work out these calculations. Write your answer as an improper fraction and as a mixed number.

a $\frac{2}{5} \times 7$

b $\frac{3}{4} \times 6$

c $\frac{4}{6} \times 4$

d $\frac{2}{3} \times 6$

e $\frac{3}{7} \times 4$

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

g $\frac{4}{9} \times 6$

h $\frac{3}{10} \times 8$

i $\frac{2}{6} \times 5$

j $\frac{3}{8} \times 4$

k $\frac{4}{7} \times 3$

l $\frac{4}{5} \times 6$

- Use multiplication to work out these calculations. Write your answer as an improper fraction and as a mixed number.

a $\frac{6}{7} \times 6$

b $\frac{5}{8} \times 9$

c $\frac{3}{4} \times 12$

d $\frac{4}{9} \times 10$

e $\frac{8}{10} \times 7$

f $\frac{4}{12} \times 6$

g $\frac{7}{8} \times 9$

h $\frac{11}{15} \times 8$

i $\frac{4}{11} \times 6$

j $\frac{6}{12} \times 7$

k $\frac{3}{15} \times 5$

l $\frac{7}{13} \times 8$



Example

$$\frac{2}{3} \times 4 = \frac{2}{3} + \frac{2}{3} + \frac{2}{3} + \frac{2}{3} = \frac{8}{3} = 2\frac{2}{3}$$

Example

$$\frac{2}{3} \times 4 = \frac{2}{3} \times \frac{4}{1} = \frac{2 \times 4}{3 \times 1} = \frac{8}{3} = 2\frac{2}{3}$$