## Multiplying a fraction by an integer

Miss Parnham

## Multiplying a fraction by an integer

1. Multiply the fractions and integers. Give answers as mixed numbers in their simplest form.
a) $5 \times \frac{1}{6}$
b) $\frac{3}{8} \times 2$
c) $4 \times-\frac{2}{3}$
d) $\frac{7}{12} \times 2$
e) $\frac{-3}{4} \times 8$
f) $15 \times \frac{4}{5}$
g) $10 \times \frac{8}{15}$
h) $\frac{-7}{18} \times-12$
2. Alex has two dogs.

Each day one dog eats $\frac{3}{4}$ of a tin of dog food and the other eats $\frac{1}{3}$ of a tin. Alex needs a two week supply.
How many tins should she buy?
3. The same number is missing from both spaces, what is it?

$$
\frac{3}{4} \times \square-\frac{2}{3} \times \square=1
$$

## Multiplying a fraction by an integer

4. Multiply the fractions and integers. Give answers as mixed numbers in their simplest form.
a) $7 \frac{5}{9} \times 4$
b) $3 \times 2 \frac{7}{8}$
c) $2 \times 1 \frac{3}{4}$
d) $4 \times 2 \frac{3}{8}$
e) $7 \frac{7}{17} x-3$
f) $-2 \frac{5}{16} \times 4$
g) $5 \times-3 \frac{3}{10}$
h) $-5 \frac{7}{8} \times-6$
5. Rosie needs $7 \frac{3}{5} \mathrm{~m}$ of fabric for each tablecloth she sews.

How much fabric does she need for 13 tablecloths?
6. Which product has a solution closest to 10?


Answers

## Multiplying a fraction by an integer

1. Multiply the fractions and integers. Give answers as mixed numbers in their simplest form.
a) $5 \times \frac{1}{6}=\frac{5}{6}$
b) $\frac{3}{8} \times 2=\frac{3}{4}$
c) $4 \times-\frac{2}{3}=-2 \frac{2}{3}$
d) $\frac{7}{12} \times 2=1 \frac{1}{6}$
e) $\frac{-3}{4} \times 8=-6$
f) $15 \times \frac{4}{5}=12$
g) $10 \times \frac{8}{15}=5 \frac{1}{3}$
h) $\frac{-7}{18} \times-12=4 \frac{2}{3}$
2. Alex has two dogs.

Each day one dog eats $\frac{3}{4}$ of a tin of dog food and the other eats $\frac{1}{3}$ of a tin. Alex needs a two week supply.
How many tins should she buy?

$$
16 \text { tins } \quad 10 \frac{1}{2}+4 \frac{2}{3}=15 \frac{1}{6}
$$

3. The same number is missing from both spaces, what is it?

$$
\frac{3}{4} \times 12-\frac{2}{3} \times 12=7
$$

## Multiplying a fraction by an integer

4. Multiply the fractions and integers. Give answers as mixed numbers in their simplest form.
a) $7 \frac{5}{9} \times 4=6 \frac{2}{9}$
b) $3 \times 2 \frac{7}{8}=8 \frac{5}{8}$
c) $2 \times 1 \frac{3}{4}=3 \frac{1}{2}$
d) $4 \times 2 \frac{3}{8}=9 \frac{1}{2}$
e) $7 \frac{7}{17} \times-3=-4 \frac{10}{11}$ f) $-2 \frac{5}{16} \times 4=-9 \frac{1}{4}$
g) $\left.5 \times-3 \frac{3}{10}=-16 \frac{1}{2} h\right)-5 \frac{7}{8} \times-6=35 \frac{1}{4}$
5. Rosie needs $7 \frac{3}{5} \mathrm{~m}$ of fabric for each tablecloth she sews.
How much fabric does she need for 13 tablecloths? $13 \times 1 \frac{3}{5}=20 \frac{4}{5} \mathrm{~m}$
6. Which product has a solution closest to 10?

