

Number – Multiplying and dividing fractions

Multiply a whole number by a fraction

Divide by the denominator and multiply by the numerator

You might see
 $\frac{5}{6} \times 48$
 or
 $\frac{5}{6}$ of 48

$$48 \times \frac{5}{6}$$

$$= 48 \div 6 \times 5$$

$$= 40$$

Multiply two fractions

- Multiply the numerators
- Multiply the denominators
- Simplify the answer if you can

$$\frac{4}{9} \times \frac{3}{4}$$

$$= \frac{12}{36}$$

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

Divide two fractions

Change dividing by a fraction into multiply by the reciprocal

Don't change the first fraction

$$\frac{3}{7} \div \frac{5}{8}$$

$$= \frac{3}{7} \times \frac{8}{5}$$

Now multiply the fractions

$$\frac{3}{7} \div \frac{5}{8}$$

$$= \frac{3}{7} \times \frac{8}{5}$$

$$= \frac{24}{35}$$