



Multiplying and Dividing Fractions

1. Work out each of these calculations. Simplify your answers.

$$\frac{2}{3} \times 15 = \frac{30}{3} = 10$$

$$\frac{4}{9} \times \frac{3}{11} = \frac{12}{99} = \frac{4}{33}$$

$$\frac{5}{12} \times \frac{1}{8} = \frac{5}{96}$$

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

2. Rachel knits a scarf with 12 stripes.

Each stripe on the scarf uses $\frac{3}{4}$ of a ball of wool.

How many balls of wool does she use?

$$12 \times \frac{3}{4} = \frac{36}{4}$$

$$= 9 \text{ balls}$$

3. Divide each of these fractions by 8. Write your answers in their simplest forms.

$$\frac{3}{4} \div 8 = \frac{3}{32}$$

Your fraction gets 8 times smaller so make the denominator 8 times greater.

$$\frac{2}{5} \div 8 = \frac{2}{40} = \frac{1}{20}$$

Keep the numerator the same

$$\frac{9}{12}$$

$$\frac{9}{12} \div 4 = \frac{9}{48} = \frac{3}{16}$$

4. Kay has $\frac{7}{9}$ of an apple pie left. She divides it between 4 people.

What fraction of the apple pie does each person get?

$$\frac{7}{9} \div 4 = \frac{7}{36}$$

← it'll be 4 times smaller so make the denominator 4 times greater

Multiplying fractions is a Number Adder's favourite hobby. Apart from dividing fractions. What about you?

