



Multiplying Fractions

Name: _____

Date: _____

Year: Year 5

Multiply the numerators and denominators carefully. Simplify each fraction fully and include the correct unit for word problems. Show your working in your exercise book.

EXAMPLE

$$\frac{3}{4} \times 8 = \underline{\hspace{2cm}}$$

Rewrite 8 as $\frac{8}{1}$: $\frac{3}{4} \times \frac{8}{1}$. Multiply the numerators: $3 \times 8 = 24$. Multiply the denominators: $4 \times 1 = 4$. Simplify $\frac{24}{4} = 6$.

× Part 1: Multiply a Fraction by a Whole Number

1. $\frac{2}{5} \times 10 = \underline{\hspace{2cm}}$

2. $\frac{3}{8} \times 16 = \underline{\hspace{2cm}}$

3. $\frac{5}{6} \times 18 = \underline{\hspace{2cm}}$

4. $\frac{7}{12} \times 24 = \underline{\hspace{2cm}}$

÷ Part 2: Multiply a Fraction by a Fraction

5. $\frac{1}{3} \times \frac{3}{4} = \underline{\hspace{2cm}}$

6. $\frac{2}{5} \times \frac{3}{7} = \underline{\hspace{2cm}}$

7. $\frac{4}{9} \times \frac{3}{8} = \underline{\hspace{2cm}}$

8. $\frac{5}{6} \times \frac{9}{10} = \underline{\hspace{2cm}}$

 Part 3: Apply Multiplication in Context

9. A jug contains 600 ml of water. A pupil uses $\frac{2}{5}$ of the water to fill a bottle. How many millilitres are used?

10. A ribbon is $\frac{3}{4}$ metre long. A craft group uses $\frac{2}{3}$ of the ribbon. How many metres of ribbon do they use?

11. A bag of bird seed costs £4.50. A charity buys $\frac{3}{5}$ of a bag. What is the cost of that amount of seed?

12. A school has $2\frac{1}{2}$ metres of green fabric. The art club uses $\frac{3}{5}$ of it for a display. How many metres of fabric are used?
