

Multiply Fractions

Name: _____

Grade 5 · Multiply a fraction by a fraction and write the product in simplest form

How it works

$$\frac{2}{3} \times \frac{4}{5} = \frac{2 \times 4}{3 \times 5} = \frac{8}{15}$$

Multiply the numerators. Multiply the denominators.
If the top and bottom can both be divided by the same number,
write the product in simplest form: $\frac{2}{4} \times \frac{2}{3} = \frac{4}{12} = \frac{1}{3}$.

A. Multiply.

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

2. $\frac{2}{3} \times \frac{1}{5} = \frac{\boxed{}}{\boxed{}}$

3. $\frac{1}{4} \times \frac{3}{5} = \frac{\boxed{}}{\boxed{}}$

4. $\frac{3}{4} \times \frac{1}{2} = \frac{\boxed{}}{\boxed{}}$

5. $\frac{2}{5} \times \frac{2}{3} = \frac{\boxed{}}{\boxed{}}$

6. $\frac{1}{3} \times \frac{1}{3} = \frac{\boxed{}}{\boxed{}}$

7. $\frac{3}{5} \times \frac{1}{2} = \frac{\boxed{}}{\boxed{}}$

8. $\frac{4}{5} \times \frac{2}{3} = \frac{\boxed{}}{\boxed{}}$

9. $\frac{5}{6} \times \frac{1}{2} = \frac{\boxed{}}{\boxed{}}$

10. $\frac{3}{4} \times \frac{3}{5} = \frac{\boxed{}}{\boxed{}}$

11. $\frac{2}{3} \times \frac{2}{3} = \frac{\boxed{}}{\boxed{}}$

12. $\frac{5}{8} \times \frac{3}{4} = \frac{\boxed{}}{\boxed{}}$

B. Multiply. Then write the product in simplest form.

1. $\frac{2}{3} \times \frac{3}{4} = \frac{\boxed{}}{\boxed{}} = \frac{\boxed{}}{\boxed{}}$

2. $\frac{1}{2} \times \frac{2}{5} = \frac{\boxed{}}{\boxed{}} = \frac{\boxed{}}{\boxed{}}$

3. $\frac{3}{4} \times \frac{4}{5} = \frac{\boxed{}}{\boxed{}} = \frac{\boxed{}}{\boxed{}}$

4. $\frac{2}{5} \times \frac{5}{6} = \frac{\boxed{}}{\boxed{}} = \frac{\boxed{}}{\boxed{}}$

5. $\frac{4}{9} \times \frac{3}{8} = \frac{\boxed{}}{\boxed{}} = \frac{\boxed{}}{\boxed{}}$

6. $\frac{5}{6} \times \frac{3}{10} = \frac{\boxed{}}{\boxed{}} = \frac{\boxed{}}{\boxed{}}$

7. $\frac{6}{7} \times \frac{1}{3} = \frac{\boxed{}}{\boxed{}} = \frac{\boxed{}}{\boxed{}}$

8. $\frac{8}{9} \times \frac{3}{4} = \frac{\boxed{}}{\boxed{}} = \frac{\boxed{}}{\boxed{}}$

C. Find the fraction of the whole number.

1. $\frac{2}{3} \times 12 = \boxed{}$

2. $\frac{3}{4} \times 20 = \boxed{}$

3. $\frac{1}{5} \times 35 = \boxed{}$

4. $\frac{5}{6} \times 24 = \boxed{}$

5. $\frac{3}{8} \times 16 = \boxed{}$

6. $\frac{2}{5} \times 30 = \boxed{}$

Multiply Fractions (Answer Key)

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If the top and bottom can both be divided by the same number, write the product in simplest form: $\frac{2}{4} \times \frac{2}{3} = \frac{4}{12} = \frac{1}{3}$.

A. Multiply.

1. $\frac{1}{2} \times \frac{1}{3} = \frac{1}{6}$

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

3. $\frac{1}{4} \times \frac{3}{5} = \frac{3}{20}$

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

5. $\frac{2}{5} \times \frac{2}{3} = \frac{4}{15}$

6. $\frac{1}{3} \times \frac{1}{3} = \frac{1}{9}$

7. $\frac{3}{5} \times \frac{1}{2} = \frac{3}{10}$

8. $\frac{4}{5} \times \frac{2}{3} = \frac{8}{15}$

9. $\frac{5}{6} \times \frac{1}{2} = \frac{5}{12}$

10. $\frac{3}{4} \times \frac{3}{5} = \frac{9}{20}$

11. $\frac{2}{3} \times \frac{2}{3} = \frac{4}{9}$

12. $\frac{5}{8} \times \frac{3}{4} = \frac{15}{32}$

B. Multiply. Then write the product in simplest form.

1. $\frac{2}{3} \times \frac{3}{4} = \frac{6}{12} = \frac{1}{2}$

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

3. $\frac{3}{4} \times \frac{4}{5} = \frac{12}{20} = \frac{3}{5}$

4. $\frac{2}{5} \times \frac{5}{6} = \frac{10}{30} = \frac{1}{3}$

5. $\frac{4}{9} \times \frac{3}{8} = \frac{12}{72} = \frac{1}{6}$

6. $\frac{5}{6} \times \frac{3}{10} = \frac{15}{60} = \frac{1}{4}$

7. $\frac{6}{7} \times \frac{1}{3} = \frac{6}{21} = \frac{2}{7}$

8. $\frac{8}{9} \times \frac{3}{4} = \frac{24}{36} = \frac{2}{3}$

C. Find the fraction of the whole number.

1. $\frac{2}{3} \times 12 = 8$

2. $\frac{3}{4} \times 20 = 15$

3. $\frac{1}{5} \times 35 = 7$

4. $\frac{5}{6} \times 24 = 20$

5. $\frac{3}{8} \times 16 = 6$

6. $\frac{2}{5} \times 30 = 12$