

Multiply Fractions

Different Ways to Find $\frac{2}{3}$ of $\frac{6}{8}$

Way 1: Multiply, then simplify.

$$\frac{2}{3} \times \frac{6}{8} = \frac{2 \times 6}{3 \times 8} = \frac{12}{24}$$

$$\frac{12}{24} \div \frac{12}{12} = \frac{1}{2}$$

Way 2: Simplify, then multiply.

$$\frac{2}{3} \times \frac{6}{8} = \frac{\overset{1}{\cancel{2}} \times \overset{2}{\cancel{6}}}{\underset{1}{\cancel{3}} \times \underset{1}{\cancel{4}} \times 2} = \frac{2}{4}$$

$$\frac{2 \div 2}{4 \div 2} = \frac{1}{2}$$

Multiply. Write your answer in simplest form.

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

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

3. $\frac{4}{9} \times \frac{3}{7}$

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

5. $\frac{3}{4} \times \frac{5}{6}$

6. $\frac{1}{10} \times 5$

7. $\frac{4}{7} \times \frac{1}{4}$

8. $6 \times \frac{2}{3}$

9. $12 \times \frac{2}{3}$

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

11. $\frac{8}{9} \times \frac{4}{5}$

12. $\frac{5}{6} \times 4$

Problem Solving

Show Your Work

13. Laurence owns 20 balls. $\frac{4}{5}$ of the balls are larger than a baseball, and $\frac{1}{2}$ of those are soccer balls. How many soccer balls does Laurence own?
