

# Advanced\_Grade-5\_Fractions

## Multiplication of Fractions by Fractions

1. Complete each multiplication.

$$1. \frac{2}{3} \times \frac{4}{5} = \frac{2 \times ?}{3 \times ?}$$

$$= \frac{8}{?}$$

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

$$= \frac{?}{10}$$

$$3. \frac{5}{7} \times \frac{1}{4} = \frac{? \times ?}{? \times ?}$$

$$= \frac{?}{?}$$

2. Multiply. Use the GCF to simplify whenever possible.

$$1. \frac{7}{18} \times \frac{3}{5}$$

$$2. \frac{12}{20} \times \frac{5}{6}$$

$$3. \frac{5}{9} \times \frac{2}{3}$$

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

$$5. \frac{7}{12} \times \frac{1}{7}$$

$$6. \frac{9}{16} \times \frac{4}{5}$$

$$7. \frac{4}{21} \times \frac{1}{8}$$

$$8. \frac{14}{18} \times \frac{2}{3}$$

$$9. \frac{24}{50} \times \frac{10}{12}$$

$$10. \frac{1}{9} \times \frac{1}{10}$$

$$11. \frac{9}{10} \times \frac{1}{2} \times \frac{2}{9}$$

$$12. \frac{5}{8} \times \frac{2}{3} \times \frac{7}{10}$$

$$13. \frac{3}{4} \times \frac{1}{6} \times \frac{2}{5}$$

$$14. \frac{5}{12} \times \frac{4}{5} \times \frac{2}{3}$$

$$15. \frac{4}{5} \times \frac{1}{2} \times \frac{3}{8}$$

$$16. \frac{3}{5} \times \frac{5}{7} \times \frac{7}{9} \times \frac{9}{11}$$

3. Is each product correct? Write *Yes* or *No*. If no, explain the error made, then write the correct product.

$$27. \frac{3}{5} \times \frac{10}{13} = \frac{6}{13}$$

$$28. \frac{4}{9} \times \frac{1}{9} = \frac{4}{1}$$

$$29. \frac{7}{11} \times \frac{1}{7} = \frac{8}{18}$$

$$30. \frac{1}{8} \times \frac{1}{6} = \frac{1}{14}$$

4. Harold is following a cookie recipe. The recipe calls for  $\frac{1}{2}$  cup of butter. If Harold wants to make  $\frac{1}{2}$  as many cookies as the recipe allows for, how much butter should he use?

5. A can holds  $\frac{7}{8}$  qt of water. How much water is in the can when it is  $\frac{2}{3}$  full? when it is  $\frac{3}{4}$  full?

6.

Fill in the blanks.

1)  $\frac{1}{6} \times \frac{1}{5} = \square$

7)  $\frac{1}{6} \times \square = \frac{5}{12}$

2)  $\frac{2}{5} \times \frac{2}{9} = \square$

8)  $\frac{2}{9} \times \square = \frac{3}{15}$

3)  $\frac{10}{3} \times \frac{1}{20} = \square$

9)  $\frac{2}{5} \times \square = \frac{7}{12}$

4)  $\square \times \frac{15}{7} = \frac{5}{14}$

10)  $\square \times \frac{7}{6} = \frac{2}{3}$

5)  $\square \times \frac{1}{6} = \frac{8}{9}$

11)  $\square \times \frac{7}{5} = \frac{4}{15}$

6)  $\square \times \frac{25}{24} = \frac{5}{6}$

12)  $\square \times \frac{3}{4} = \frac{1}{6}$