

Multiplying and Dividing Rational Numbers Worksheet

Directions: Multiply or divide the rational numbers. Simplify all fractions when possible.

Part A: Multiplying Rational Numbers

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

$$2. \quad \frac{2}{3} \times \frac{5}{6} = \frac{\square}{\square} = \frac{\square}{\square}$$

$$3. \quad \frac{7}{8} \times \frac{4}{7} = \frac{\square}{\square} = \frac{\square}{\square}$$

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

$$5. \quad \frac{5}{12} \times \frac{6}{10} = \frac{\square}{\square} = \frac{\square}{\square}$$

$$6. \quad -\frac{2}{3} \times \frac{9}{4} = \frac{\square}{\square} = \frac{\square}{\square}$$

$$7. \quad -\frac{5}{8} \times -\frac{4}{15} = \frac{\square}{\square} = \frac{\square}{\square}$$

$$8. \quad \frac{3}{7} \times -\frac{14}{9} = \frac{\square}{\square} = \frac{\square}{\square}$$

$$9. \quad 0.5 \times 1.2 = \frac{\square}{\square} = \frac{\square}{\square}$$

$$10. \quad -2.5 \times 0.4 = \underline{\hspace{2cm}}$$

$$11. \quad 1.75 \times 2 = \underline{\hspace{2cm}}$$

$$12. \quad -3.2 \times -1.5 = \underline{\hspace{2cm}}$$

Part B: Dividing Rational Numbers

$$13. \quad \frac{3}{4} \div \frac{1}{2} = \frac{\square}{\square} = \square \frac{\square}{\square}$$

$$14. \quad \frac{5}{6} \div \frac{5}{12} = \frac{\square}{\square} = \frac{\square}{\square} = \square$$

$$15. \quad \frac{7}{8} \div \frac{7}{16} = \frac{\square}{\square} = \frac{\square}{\square} = \square$$

$$16. \quad \frac{2}{3} \div \frac{4}{9} = \frac{\square}{\square} = \square \frac{\square}{\square}$$

$$17. \quad \frac{9}{10} \div \frac{3}{5} = \frac{\square}{\square} = \square \frac{\square}{\square}$$

$$18. \quad -\frac{4}{5} \div \frac{2}{3} = \frac{\square}{\square} = \square \frac{\square}{\square}$$

$$19. \quad -\frac{7}{12} \div -\frac{7}{18} = \frac{\square}{\square} = \frac{\square}{\square} = \square \frac{\square}{\square}$$

$$20. \quad \frac{3}{8} \div -\frac{9}{16} = \frac{\square}{\square} = \frac{\square}{\square}$$

$$21. \quad 2.4 \div 0.6 = \underline{\hspace{2cm}}$$

$$22. \quad -4.5 \div 1.5 = \underline{\hspace{2cm}}$$