

Math Foundations: Fractions - Multiplication and Division

Take Away Practice – Answer Key

Part 1: Multiply the Fractions

Remember, when you multiply fractions, you multiply across. Slide!

$$1) \frac{4}{2} \times \frac{5}{10} = \frac{20}{20} = 1$$

$$2) \frac{5}{2} \times \frac{7}{3} = \frac{35}{6}$$

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

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

$$5) \frac{1}{3} \times 3 = \frac{3}{3} = 1$$

$$6) 8 \times \frac{1}{7} = \frac{8}{7}$$

(not expecting simplification here but if you did it, the simplification is the answer after the red equal sign :D)

Part 2: Divide the Fractions

*Remember, when you divide fractions, you **KEEP** the first fraction unchanged, **FLIP** the second fraction, and **CHANGE** the sign from division to multiplication, and proceed to multiply the fractions.*

$$1) \frac{4}{2} \div \frac{5}{10} = \frac{40}{10} = 4$$

$$2) \frac{5}{3} \div \frac{5}{3} = \frac{15}{15} = 1$$

$$3) \frac{1}{3} \div \frac{4}{9} = \frac{9}{12} = \frac{3}{4}$$

$$4) \frac{4}{3} \div \frac{3}{2} = \frac{9}{8}$$

$$5) \frac{1}{8} \div 3 = \frac{1}{24}$$

$$6) 2 \div \frac{1}{7} = \frac{14}{1} = 14$$

Part 3: Solve and Simplify

Remember, when you simplify, you can cancel something in the numerator with the same thing in the denominator.

$$1) \frac{4}{2} \times \frac{5}{10} = 1$$

$$2) \frac{5}{3} \div \frac{5}{3} = 1$$

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

$$4) \frac{1}{8} \div 3 = \frac{1}{24}$$

$$5) \frac{1}{3} \times 5 = \frac{5}{3}$$

$$6) 2 \div \frac{1}{7} = 14$$

Part 4: Simplify Then Solve (Bonus)

Remember, when you simplify, you can cancel something in the numerator with the same thing in the denominator. AND you can do it on the original fractions before solving.

$$1) \frac{4}{2} \times \frac{5}{10} = \frac{2}{1} \times \frac{1}{2} = \frac{2}{2} = 1$$

$$2) \frac{5}{3} \div \frac{5}{10} = \frac{5}{3} \times \frac{2}{1} = \frac{10}{3}$$

$$3) \frac{2}{2} \times \frac{1}{4} = \frac{1}{1} \times \frac{1}{4} = \frac{1}{4}$$

$$4) \frac{3}{9} \div 3 = \frac{1}{3} \times \frac{1}{3} = \frac{1}{9}$$

$$5) \frac{15}{3} \times 5 = \frac{5}{1} \times \frac{5}{1} = \frac{25}{1} = 25$$

$$6) 2 \div \frac{7}{14} = \frac{2}{1} \times \frac{2}{1} = \frac{4}{1} = 4$$