

Solving Multiplication & Division Equations with Rational Numbers Homework

Name _____

Solve and Check.

$$1) \frac{.25y}{.25} = \frac{1.5}{.25}$$

$$y = 6$$

$$2) \frac{.0006}{.02} = \frac{.02x}{.02}$$

$$.03 = x$$

$$3) 51 \times \frac{x}{5.1} = 16 \times 5.5$$

$$x = 88$$

$$4) \frac{0.12}{1.12} = \frac{m}{.12} \times .12$$

$$m = 0.0144$$

$$5) 125 = \frac{5}{8}m$$

$$= \frac{5}{8} \quad \cdot \frac{8}{5}$$

$$m = 125 \div \frac{5}{8}$$

n.c.f

$$m = \frac{125}{1} \times \frac{8}{5} = \frac{1000}{5}$$

$$m = 200$$

$$6) \frac{2}{3}t = \left(\frac{8}{9}\right) = \frac{8}{9}$$

$$= \frac{2}{3} \quad \cdot \frac{3}{2}$$

$$t = \frac{8}{9} \div \frac{2}{3}$$

n.c.f

$$\frac{8}{9} \times \frac{3}{2} = \frac{24}{18}$$

$$= \frac{4}{3}$$

$$t = 1\frac{1}{3}$$

~~$$8) \frac{3}{4}v = \frac{11}{16}$$~~

$$7) \frac{3}{4}v = \frac{11}{16}$$

$$= \frac{3}{4} \quad \cdot \frac{4}{3}$$

$$v = \frac{11}{16} \div \frac{3}{4}$$

$$= \frac{11}{16} \times \frac{4}{3} = \frac{11}{12}$$

~~$$9) \frac{4}{7}n = 28$$~~

$$9) \frac{4}{7}n = 28$$

$$= \frac{4}{7} \quad \cdot \frac{7}{4}$$

$$n = \frac{28}{1} \times \frac{7}{4}$$

$$n = \frac{196}{4}$$

