

Proportion

$$RATb = RATb$$

9. $9:2 = 27:6$

$$\frac{9}{2} \stackrel{?}{=} \frac{27}{6}$$

$$9(6) \stackrel{?}{=} 2(27)$$

$$54 = 54$$

✓ YES

10. $3:4 = 7:2$

$$\frac{3}{4} \stackrel{?}{=} \frac{7}{2}$$

$$3(2) \stackrel{?}{=} 4(7)$$

$$6 = 28 \text{ (NO)}$$

11.

$$5:10 = X:4$$

$$\frac{5}{10} = \frac{X}{4}$$

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

$$2X = 4$$

$$\frac{2X}{2} = \frac{4}{2}$$

$$X = 2$$

12. $X:1 = 2:8$

$$\frac{X}{1} = \frac{2}{8}$$

$$\frac{X}{1} = \frac{1}{4}$$

$$X = \frac{1}{4}$$

13. $3:8 = 5:X$

$$\frac{3}{8} = \frac{5}{X}$$

$$3X = 40$$

$$\frac{3X}{3} = \frac{40}{3}$$

$$X = \frac{40}{3}$$