1. Decide whether the proportion $\frac{4}{12}$ $\Re \frac{7}{21}$ is true or false.

2. Solve the equation $\frac{2x+8}{4}$ $\Re \frac{3x-9}{3}$.

$$3(2x+8) = 4(3x-9)$$

$$6x+24 = 12x-36$$

$$-6x$$

$$24 = 6x-36$$

$$+36$$

$$+36$$

$$60 = 6x$$

$$60 = 6x$$

3. If 7 shirts cost \$87.50, find the cost of 11 shirts.

$$\frac{7 \text{ shirts}}{87.50 \text{ dollars}} = \frac{11 \text{ shirts}}{\text{X dollars}}$$

$$7_{\text{X}} = 962.5$$

$$X = 137.50$$

4. What is 26% of 480?

$$X = (0.26) \cdot (480)$$

 $X = 124.8$

5. 18% of what number is 108?

$$0.18 \times = 108$$

 $\times = 600$

6. 8 is what percent of 64?

$$8 = \times .64$$
 $0.125 = \times$
 12.5%

7. Anna saved \$1950, which was 65% of the amount she needed for a used car. What was the total amount she needed for the car?

x = 3000 She needed \$3000 for her car.