2.4 Practice

Name Solutions

Pick a variable, explain what the variable represents, and translate each problem to an equation and SOLVE.

1. What percent of 240 is 60?

$$\frac{X(240) = 60}{240}$$
 $X = \frac{60}{240} \rightarrow X = \frac{1}{4}$

Explain Variable X = fercentEquation $X = 25^{\circ}$ Answer $X = 25^{\circ}$

2. What percent of 160 is 56?

$$\frac{X(160) = 560}{160}$$

 $X = \frac{56}{160} \rightarrow X = \frac{7}{70}$

3. What number is 65% of 2?

$$X = 0.65(2)$$

 $X = 1.3$

4. 26.25 is 17.5% of what number?

$$\frac{26.25 = 0175(x)}{0.175}$$

$$\frac{150}{150} = x$$

5. What number is 4% of 840?

$$X = 0.04(840)$$

 $X = 33.6$

Explain Variable $\times = \text{PercenT}$ Equation $\times (160) = 56$

Answer x = 35%

Explain Variable X= number

Equation $\times = 0.65(2)$

Answer x = 1.3

Explain Variable X = N mbes

Equation 26.25 = 0.175(x)

Answer X2150

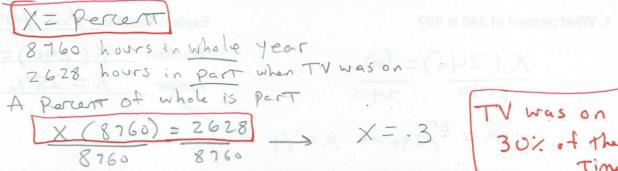
Explain Variable X= NJAber

Equation x = 0.04 (840)

Answer X = 33,6

Pick a variable, explain what the variable represents, and translate each problem to an equation and SOLVE.

6. Of the 8760 hours in a year, one television was on for 2628 hours. What percent is this?



7. Jeanne left a 12% tip on a meal. Including the tip, its cost was \$50.40.

What was the cost of the meal before the tip?

$$X = COST$$
 $SO.40$
 $SO.40$
 $SO.40 = X + 0.12(X)$
 $SO.40 = 1.12 \times 1.12$
 $SO.40 = 1.12 \times 1.12$

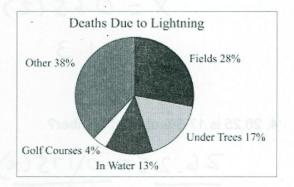
Lightning strikes kill people in various locations. The graph details these locations and the percentage of lightning deaths that occur.

From 1960 to 1992, there were 2897 people killed by lightening. In each of Exercises 11–13, determine the number of people killed from 1960 to 1992 in each location. Round to the nearest whole number.



percent of whole is port (0.28)(2897) = 811.16

Killed in feilds 9. Under trees = Part



2897 people killed by lightning (whole)

A percent of whole = part (0.17) (2897) = 492.49 - About 492 Filled under Trees

10. At golf courses