

6.3

- ① What percent of 64 is 48?

$$X \cdot 64 = 48$$

or

$$\begin{array}{r|l} 64 \times 48 & \\ \hline 64 & 64 \end{array}$$

$$X = .75$$

$$X = 75\%$$

- ② 16% of 130 is what number?

$$0.16 \cdot 130 = X$$

$$20.8 = X$$

- ③ 25% of what number is 24?

$$\begin{array}{r|l} .25 (X) = 24 & \\ \hline .25 & .25 \end{array}$$

$$X = 96$$

- ④ What percent of 18 is 12?

$$X (18) = 12$$

$$\begin{array}{r|l} 18 \times 12 & \\ \hline 18 & 18 \end{array}$$

$$X = .6666$$

$$X = 66.7\%$$

- ⑤ 48% of 83 is what number?

$$.48 (83) = X$$

$$39.84 = X$$

- ⑥ 40% of what number is 136?

$$\begin{array}{r|l} .40 (X) = 136 & \\ \hline .40 & .40 \end{array}$$

$$X = 340$$

- ⑦ What percent of 530 is 107?

$$X \cdot 530 = 107$$

$$\begin{array}{r|l} 530 \times 107 & \\ \hline 530 & 530 \end{array}$$

$$X = .2018$$

$$X = 20.18\%$$

$$X = 20.2\%$$

- ⑧ 74% of 643 is what number?

$$0.74 \cdot 643 = X$$

$$.74 (643) = X$$

$$475.82 = X$$

④ 62% of what number is 84?

$$.62 \cdot X = 84$$

$$\begin{array}{r|l} .62 \times & 84 \\ \hline .62 & .62 \\ \hline X & = 135.483871... \\ & = 135.6 \end{array}$$

⑩ what percent of 84 is 50?

$$X \cdot 84 = 50$$

$$\begin{array}{r|l} 84 \times & 50 \\ \hline 84 & 84 \\ \hline X & = .5952 \\ & = 59.52\% \\ & = 59.5\% \end{array}$$

⑪ 37% of 245 is what number?

$$.37 \cdot 245 = X$$

$$.37(245) = X$$

$$90.65 = X$$

⑫ 12% of what number is 105?

$$.12 \cdot X = 105$$

$$\begin{array}{r|l} .12 \times & 105 \\ \hline .12 & .12 \\ \hline X & = 875 \end{array}$$

⑬ a) Regular price — discount = price for senior citizens

$$100\% - 15\% = X$$

$$85\% = X$$

b) Price for senior citizens is 85% of regular price.

$$X = .85 (8.95)$$

$$X = 7.61$$

⑭ 11.4% of 2400

$$.114(2400) = X$$

$$273.6 = X$$