

Ratios, Proportions and Percents

Working with Percents

i.

$$80\% \text{ of } 30 = \underline{\hspace{2cm}}$$

$$\frac{80}{100} = \frac{x}{30}$$

$$100x = 2400$$

$$x = 24$$

1. 20% of $10 = \underline{\hspace{2cm}}$ 4. $9\frac{1}{2}\%$ of $20 = \underline{\hspace{2cm}}$

2. 25% of $45 = \underline{\hspace{2cm}}$ 5. 25% of $39 = \underline{\hspace{2cm}}$

3. 88% of $15 = \underline{\hspace{2cm}}$ 6. 16% of $90 = \underline{\hspace{2cm}}$

ii.

$$\underline{\hspace{2cm}}\% \text{ of } 40 = 10$$

$$\frac{x}{100} = \frac{10}{40}$$

$$40x = 1000$$

$$x = 25 \quad 25\%$$

1. $\underline{\hspace{2cm}}\%$ of $25 = 15$ 4. $\underline{\hspace{2cm}}\%$ of $75 = 33$

2. $\underline{\hspace{2cm}}\%$ of $30 = 10$ 5. $\underline{\hspace{2cm}}\%$ of $15 = 6$

3. $\underline{\hspace{2cm}}\%$ of $4 = 7$ 6. $\underline{\hspace{2cm}}\%$ of $80 = 40$

ii.

$$50\% \text{ of } \underline{\hspace{2cm}} = 65$$

$$\frac{50}{100} = \frac{65}{x}$$

$$50x = 6500$$

$$x = 130$$

1. 20% of $\underline{\hspace{2cm}} = 15$ 4. $33\frac{1}{3}\%$ of $\underline{\hspace{2cm}} = 41$

2. 80% of $\underline{\hspace{2cm}} = 56$ 5. 80% of $\underline{\hspace{2cm}} = 16$

3. 25% of $\underline{\hspace{2cm}} = 19$ 6. 30% of $\underline{\hspace{2cm}} = 15$