

1. Carla bought a dress at a sale for 20% off the original price. The sale price of the dress was \$28.80. Find the original price of the dress, in dollars.

1. \$23.04 2. \$5.76
3. \$34.65 4. \$36

$$\begin{array}{r} .8P = 28.80 \\ \hline .8 \end{array} \quad \begin{array}{r} 28.80 \\ \hline .8 \end{array}$$

$$P = 36$$

2. The school newspaper surveyed the student body for an article about club membership. The table below shows the number of students in each grade level who belong to one or more clubs.

	1 Club	2 Clubs	3 or More Clubs
9 th	90	33	12
10 th	125	12	15
11 th	87	22	18
12 th	75	27	23

If there are 180 students in ninth grade, what percentage of the ninth grade students belong to more than one club?

1. 20% 2. 25%
3. 35% 4. 50%

$$\begin{array}{r} 33 \\ + 12 \\ \hline 45 \end{array} \quad \begin{array}{r} 45 \\ \hline 180 \end{array} =$$

.25

3. A planned building was going to be 100 feet long, 75 feet deep, and 30 feet high. The owner decides to increase the volume of the building by 10% without changing the dimensions of the depth and the height. What will be the new length of this building?

1. 106 ft 2. 108 ft
 3. 110 ft 4. 112 ft

$$V = l d h$$

$$1.1(100)$$

4. The Edison Lightbulb Company tests 5% of their daily production of lightbulbs. If 500 bulbs were tested on Tuesday, what was the total number of bulbs produced that day?

1. 25 2. 1,000
3. 10,000 4. 100,000

$$\frac{.05P}{.05} = \frac{500}{.05}$$

$$P = 10000$$

5. Rashawn bought a CD that cost \$18.99 and paid \$20.51, including sales tax. What was the rate of the sales tax?

1. 5% 2. 2%
3. 3% 4. 8%

$$x(18.99) = 20.51$$

$$x = \frac{20.51}{18.99} = 1.08$$

6. Twenty-five percent of 88 is the same as what percent of 22?

1. $12\frac{1}{2}\%$
2. 40%
3. 50%
4. 100%

$$.25(88) = x(22)$$

$$22 = x(22)$$

$$1 = x$$

7. Linda paid \$48 for a jacket that was on sale for 25% of the original price. What was the original price of the jacket?

1. \$60 2. \$72
3. \$96 4. \$192

$$.25(P) = 48$$

$$P = \frac{48}{.25} = 192$$

8. If 25% of a number is 12, find the number.

1. 24 2. 48
3. 3 4. 4

$$\frac{.25(x) = 12}{.25 \quad .25}$$

$$x = 48$$

