

2-1 Percent of Number

Find the number. Round to the nearest tenth if necessary.

27. 98% of 15

SOLUTION:

Method 1: Write the percent as a fraction.

$$98\% = \frac{98}{100} \text{ or } \frac{49}{50}$$

$$98\% \text{ of } 15 = \frac{49}{50} \times 15 \text{ or } 14\frac{7}{10}$$

Method 2: Write the percent as a decimal.

$$98\% = \frac{98}{100} \text{ or } 0.98$$

$$98\% \text{ of } 15 = 0.98 \times 15 \text{ or } 14.7$$

So, 98% of 15 is 14.7.

ANSWER:

14.7

29. 108% of \$50

SOLUTION:

Method 1: Write the percent as a fraction.

$$108\% = \frac{108}{100} \text{ or } \frac{27}{25}$$

$$108\% \text{ of } \$50 = \frac{27}{25} \times 50 \text{ or } 54$$

Method 2: Write the percent as a decimal.

$$108\% = \frac{108}{100} \text{ or } 1.08$$

$$108\% \text{ of } \$50 = 1.08 \times 50 \text{ or } 54$$

So, 108% of \$50 is \$54.

ANSWER:

\$54

31. 0.5% of 60

SOLUTION:

Method 1: Write the percent as a fraction.

$$0.5\% = \frac{5}{1,000} \text{ or } \frac{1}{200}$$

$$0.5\% \text{ of } 60 = \frac{1}{200} \times 60 \text{ or } \frac{3}{10}$$

Method 2: Write the percent as a decimal.

$$0.5\% = 0.005$$

$$0.5\% \text{ of } 60 = 0.005 \times 60 \text{ or } 0.3$$

So, 0.5% of 60 is 0.3.

ANSWER:

0.3

33. 7.5% of 30

SOLUTION:

Method 1: Write the percent as a fraction.

$$7.5\% = \frac{75}{1,000} \text{ or } \frac{3}{40}$$

$$7.5\% \text{ of } 30 = \frac{3}{40} \times 30 \text{ or } 2\frac{1}{4}$$

Method 2: Write the percent as a decimal.

$$7.5\% = 0.075$$

$$7.5\% \text{ of } 30 = 0.075 \times 30 \text{ or } 2.25$$

So, 7.5% of 30 is 2.25.

ANSWER:

2.25