Percent Practice Homework

1c. 124.8

  d. 534.6

  e. 3,276,000

  f. 12.585

2c. II (116)

  d. I (16)

  e. I (0.2)

Word Problems

1) At a local department store, dresses typically cost \$26. However, due to a special, the dresses are reduced to \$14. What percent of the original price has the dresses been reduced to? Round your answer to the nearest tenth if necessary.

$$\frac{14}{26} = \frac{X(26)}{26}$$

$$.538 = X$$

$$\boxed{53.8\%}$$

$$\frac{14}{26} = \frac{X}{100}$$

$$\frac{1400}{26} = \frac{26X}{26}$$

$$X = 53.8\%$$

2) Sally decided to look at new and used cars. Sally found a new car for $20000. Typically a used car goes for 40.0% of a new car, so what price would a used car be? Round your answer to the nearest whole number if necessary.

$$X = .40 (20,000)$$
$$X = 8000$$

$$\frac{40}{100} = \frac{X}{20,000}$$

$$\frac{800000}{100} = \frac{100X}{100}$$

$$\$8000$$

3) At a construction job for a theater, 10 painters were tasked with painting the interior. These painters made up 45.5% of the painting crew, so how many painters in all worked on this job? Round your answer to the nearest whole number if necessary.

$$\frac{10}{.455} = \frac{.455X}{.455}$$

$$22 = X$$

$$\frac{45.5}{100} = \frac{10}{X}$$

$$X = 22$$

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4) One baseball team won 16 games throughout their entire season. Of all their games, this team won 57.1% of them. Given this, how many games in total did this baseball team play? Round your answer to the nearest whole number if necessary.

$$\frac{16}{.571} = \frac{.571 \, x}{.571}$$

$$\frac{57.1}{100} = \frac{16}{x}$$

$$28 = x$$

<u>Homework:</u>

Percent Word Problems Worksheet

(Finish for Homework)

Answers:

5) 37 quest.

6) 24 exhibits

7) 33.3%

8) 50 students

9) 17 owners

10) 22 oz.