

HW: Worksheet

Warm up:

1) Manny earns 8% commission on all of his sales. If he sold a \$2500 refrigerator, how much money would he make in commission?

~~$$\frac{8}{100} = \frac{x}{2500}$$

$$\frac{100x = 20000}{100} \quad x = 200$$~~

$$\text{\$200} \quad 0.08(2500)$$

2) There are 84 students in the ski club and 36 of them are 7th graders. What percent of the ski club members are in 7th grade?

~~$$\frac{x}{100} = \frac{36}{84}$$

$$\frac{84x = 3600}{84} \quad \frac{84}{84}$$~~

$$\text{42.86\%}$$

$$\frac{p \cdot 84 = 36}{84 \quad 84}$$

3) You went to a restaurant and tipped your waiter 15%. If you tipped the waiter \$11, what was your total bill?

~~$$\frac{15}{100} = \frac{11}{x}$$~~

$$\frac{15x = 1100}{15} \quad \frac{15}{15}$$

$$x = 73.33$$

$$\text{\$73.33}$$

HW Solutions

$$\textcircled{a} \quad \frac{p(449.99)}{449.99} = \frac{35.99}{449.99}$$

$$p = 0.079979555$$

$\textcircled{8\%}$

$$\textcircled{2} \quad \frac{x}{100} = \frac{11}{47.20}$$
$$\textcircled{23.31\%}$$

$$\frac{20}{100} = \frac{x}{47.20}$$
$$\$9.44$$

$$\textcircled{Q} \quad 0.3(1.5) = 0.45$$

$$\textcircled{0.45 \text{ g}}$$

⑫ 0.045(39.98)

⑪ \$1.80

1.7991

⑪ 0.04(768)

\$30.72

$$\textcircled{15} \quad \frac{p(4000)}{4000} = \frac{2600}{4000}$$

$$p = 0.65$$

65%

$$\textcircled{14} \quad 0.25(0.7)(20000)$$

3500 students

(16) 0.04 (33000)
\$1320

Showdown

Ned got 42% of the votes in a recent election. If he received 546 votes, how many people voted?

$$\frac{0.42x = 546}{0.42 \quad 0.42}$$
$$x = 1300$$

$$\frac{42}{100} = \frac{546}{x}$$

1300 people

There are 432 students in the graduating class at Memorial High School. 27 students took Advanced Art during their senior year. What percentage of the students took Advanced Art during their senior year?

$$\frac{27}{432} = \frac{27}{432}$$
$$p = 0.0625$$
$$\textcircled{6.25\%}$$

Your bill at a restaurant is \$62.48. Your waiter was very rude so you only want to tip him 8%. How much tip should you leave?

$$\overset{8}{\curvearrowright} \\ 0.08(62.48)$$

$$4.9984$$

$$\text{\$ } \underline{5}$$

$$\frac{8}{100} = \frac{x}{62.48}$$

A store is selling a TV for \$950, which is 125% of what they bought it for. How much did they buy it for?

$$\begin{array}{r} 1.25x = 950 \\ \hline 1.25 \quad 1.25 \\ \hline x = 760 \end{array}$$

$$\text{\$760}$$

$$\frac{125}{100} = \frac{950}{x}$$

3580 people live in a town. Of the townspeople, 895 have a landline phone. What percentage of the townspeople have a landline phone?

Tina is getting rid of her doll collection. She wants to give 72% of her dolls to Nancy and 28% of her dolls to Amanda. If Tina has 75 dolls, how many should Amanda get?

A recent survey polled 450 people about their favorite sport. 40 people said it was curling, 324 people said rugby, and 86 said polo. What percent of the people surveyed said that rugby was their favorite sport?

Of the 273 students in a school, 95 volunteered to work the book sale. About what percent did not volunteer? Round to the nearest whole percent.

A class picture includes 95% of the students. Seven students were absent. How many students are in the class?

