

Warm up:

You invest \$5300 at 6.25% simple interest for 7 months. How much money will be in your account after 7 months?

$$7 \div 12 =$$

$$I = prt$$

$$5300(0.0625)\left(\frac{7}{12}\right)$$

$$193.23$$

$$+ 5300$$

$$\underline{\$5493.23}$$

HW Solutions

$$(10) \quad 500(0.0375)\left(\frac{4}{12}\right)$$

6.25

\$6.25

$$(5) \quad 1200(0.19)\left(\frac{1}{12}\right)$$

19
\$1219

Q 250(0.0285)(3)

21.375

\$21.38

Q 2)

4200(0.06)(4)

1008

\$5208

Yes

$$\textcircled{18} \quad 900(0.029)\left(\frac{9}{12}\right)$$

$$19.575$$

$$\textcircled{\$19.58}$$

$$\textcircled{19} \quad 2500(0.031)\left(\frac{18}{12}\right)$$

$$\textcircled{\$116.25}$$

$$④ \quad 75(0.125)\left(\frac{1}{12}\right)$$

$$0.78125$$

$$\$0.78$$

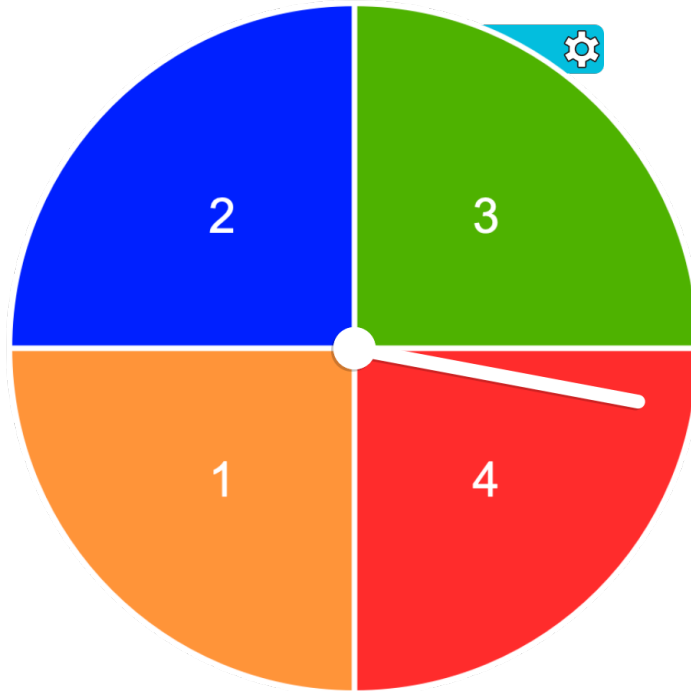
$$\textcircled{\$75.78}$$

$$⑦ \quad 1345(0.0725)\left(\frac{1}{12}\right)$$

$$\$8.13$$

$$\textcircled{\$1353.13}$$

Showdown



Tom measured the mass of a piece of gold to be 153g but the actual mass was 160g. What was the percent error?

$$\frac{160-153}{160} = \frac{7}{160} = 0.04375$$

$$4.38\%$$

Michelle borrowed \$16,000 at 14.2% simple interest for 5 years. How much total money does she need to pay back?

$$16000(0.142)(5)$$

$$\begin{array}{r} 11360 \\ + 16000 \\ \hline \end{array}$$

$$\underline{\underline{\$27360}}$$

At Macy's, hats that regularly cost \$35 are on sale for \$12.50. What is the percent discount?

$$\frac{35 - 12.50}{35} = \frac{22.5}{35} = 0.642857$$

64.29%

$$\frac{p \cdot 35}{35} = \frac{12.50}{35}$$

$p = 35.71\%$

A store marks all of their merchandise up by 240% before selling it. If they bought a turkey for \$8.50, how much will they sell it for?

$$3.4 (8.50)$$
$$\$28.90$$

David bought \$13,000 in Apple stock. Since he bought it, it has gone up by 3.88%. How much money is in his account now?

$$1.0388(13000)$$
$$\underline{\underline{\$ 13504.40}}$$

Julie found a purse on sale for \$53. If the store is running a 45% off sale, what was the regular price of the purse?

$$\begin{array}{r} 0.55x = 53 \\ \hline 0.55 \quad 0.55 \\ \hline x = \$96.36 \end{array}$$

A store is running a 20% off sale. What is the sale price of a drill that is regularly \$85?

You went to the county fair guessed that the weight of a local cow was 2200 lb but the actual weight of the cow was 1850 lb. What was your percent error?

Scott invested \$12,400 at 0.72% interest for 4 months. How much money did he make in interest?

The population of a town has gone up by 14% over the last 20 years. If the population was 4327 20 years ago, what is the current population?

A few years ago, you bought some stock in a company. Since then, the value of the stock has gone down by 2.9%. If you currently have \$42,540 in your account, how much money did you invest?

Since it opened, a stock has gone down by 27%.
If it opened at \$19.63, what is the current price?

A restaurant marks up their wine by 170%. If they have a bottle of wine on the wine list for \$62, how much did they pay for it?

Stephen borrowed \$1960 at 5.5% simple interest. If he paid it back over the course of 2 months, how much money did he pay in interest?

Will marks up laptops 53% before he sells them. If he bought a laptop for \$360, how much will he sell it for?

The movie theatre nearby has a 15% off discount for students. If they normally charge \$12 for a ticket, how much should you expect to pay?

A sunglasses store buys Ray Bans for \$40 and sells them for \$180. What is their percent markup?

Kohls marks all of their merchandise up by 110% before selling it. If they are selling a pair of shoes for \$55, how much did they buy them for?

Walmart marks up their merchandise by 130% before they sell it. If they bought a TV for \$480, how much will they sell it for?

A printer is on sale for 40% off. If the regular price is \$350, what is the sale price?

Joan invested \$350 at 4.22% simple interest for 7 years. How much money does she make in interest?

