$$
\text { 6.1, 6.4, and 6.5 Quiz Review } \frac{\text { is }}{\text { of }}=\frac{\%}{100}
$$

1. Eight is what percent of 64p

$$
\frac{8}{64}><\frac{x}{100} \quad \frac{64 x}{64}=\frac{800}{64} \quad x=12.5 \%
$$

2. What number is $60 \%$ of 95

$$
\frac{y}{95}: \frac{60}{100} \quad \frac{100 y}{100}=\frac{5700}{100} y=57
$$

6.1, 6.4, and 6.5 Quiz Review
3. Fourteen is $28 \%$ of what number?

$$
\frac{14}{y} \div \frac{28}{100} \quad \frac{1400}{28}=\frac{28 y}{28} \quad y=50
$$

4. Find $6 \% \mathrm{pf} \$ 7,500$.

$$
\frac{d}{7500}=\frac{6}{100} \quad \frac{100 d}{100}=\frac{45000}{100} d=450
$$

6.1, 6.4, and 6.5 Quiz Review
5. Sixty is what percent of 40,

$$
\frac{60}{40} \geq \frac{p}{100}
$$

$$
\frac{40 \rho}{40}=\frac{6000}{40} p=150 \%
$$

6. Thirty is $20 \%$ of what numbers

$$
\frac{30}{x}=\frac{20}{100} \quad \frac{20 x}{20}=\frac{3000}{20} x=150
$$

6.1, 6.4, and 6.5 Quiz Review
7. Christa paid only $\$ 32$ for a pair of shoes that were originally $\$ 40$ What was the percent of decrease?

$$
40-32=8 \quad \frac{8}{40}=0.20 ;=20 \%
$$

8. Timothy owns a tool store. He purchased an electric saw for $\$ 90$, but he is selling it for $\$ 117$. What is the markup?

$$
117-90=27 \quad \frac{27}{90}=0.300=30 \%
$$

6.1, 6.4, and 6.5 Quiz Review
9. Find the percent of error if the estimated distance was 60 miles, but the actual distance is 75 miles.

$$
75-60=15 \quad \frac{15}{75}=0.20=20 \%
$$

10. Find the percent of error when the actual area is 22.5 .quare inches and the measured area is 24 square inches.

$$
24-22.5=1.5
$$

$$
\begin{aligned}
\frac{1.5}{22.5} & =0 \operatorname{cold} 66 \ldots \\
& =6.666 \ldots \\
& =6.7 \%
\end{aligned}
$$

6.1, 6.4, and 6.5 Quiz Review
11. Marta purchases a $\$ 125$ chair at a $30 \%$ discount What is the price that Marta will pay for the chair?

$$
\begin{array}{lc}
100-30 & =.70 \% \\
0.70 & \times 0.70 \\
\hline \$ 87.50
\end{array}
$$

12. Evan purchased a guitar for $\$ 100$. He wants to resell it at a $34 \%$ markup. What is the new cost of the guitar?

$$
100+34=\begin{array}{cc}
134 \% \% \\
1.34 & \left.\begin{array}{c}
100 \\
1.34 \\
1.34 \\
\hline
\end{array}\right]
\end{array}
$$

6.1, 6.4, and 6.5 Quiz Review
13. Jerry purchases a set of golf clubs that originally sells for $\$ 345$. If Dick's Sporting Goods is promoting their fall sale with a $15 \%$ discount and the city of Summerville has. $6 . \%$ sales tax. then how much is Jerry paying for the golf clubs? 0.06

$$
\begin{gathered}
100-15=\frac{.85 \%}{0.85} \\
\begin{array}{l}
345 \\
\times 0.85 \\
293.25
\end{array}
\end{gathered} \quad \begin{aligned}
& 293.25 \times 0.06=17.595 \\
& \begin{array}{l}
293.25 \\
+17.595 \\
8310.845 \\
8310.85
\end{array} \\
& \hline
\end{aligned}
$$

