Use a proportion to solve each problem.
a.) 57 is $50 \%$ of what number?

$$
\frac{\text { is }}{\text { of }}=\frac{\%}{100}
$$

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

b.) $25 \%$ of 42 is what number p

$$
\frac{x}{42} \neq \frac{25}{100} \quad \frac{100 x}{100}=\frac{1050}{100} x=10.5
$$

Use a proportion to solve each problem.
c.) Twenty-eight is $35 \%$ what number?

$$
\frac{28}{v} \times \frac{35}{100} \quad \frac{2800}{35}=\frac{35 v}{35} \quad v=80
$$

d.) 13 is $5 \%$ of what number?

$$
\frac{13}{w} \times \frac{5}{100} \frac{5 w}{5}=\frac{1300}{5} w=260
$$

Use a proportion to solve each problem.
e.) $9 \%$ of 2000 is what number?

$$
\frac{t}{2000}=\times \frac{9}{100} \quad \frac{100 t}{100}=\frac{19000}{100} \quad t=180
$$

f.) 36 is what percent 6724 .

$$
\frac{36}{24} \times \frac{c}{100} \quad \frac{3600}{24}=\frac{24 c}{24} \quad c=150 \%
$$

Find each discount price.
g.) $\$ 35$ lamp at: $20 \%$ off Method \#1: $35 \times 0.20=7$

$$
35-7=28
$$

h.) $\$ 395.95$ couch at $\mathbf{3} 55 \%$ off Method \#1:

$$
\begin{gathered}
395.95 \times 0.35=138.5825 \\
395.95-138.5825= \\
257.3675 \\
y 257.37
\end{gathered}
$$

Method \#2:

$$
100-20=80 \%
$$

$$
35 \times 0.80=28
$$

Method $=12$

$$
100-35=.65 \%
$$

$$
395.95 \times 0.65=
$$

$$
257.3675
$$

$$
0257.37
$$

Find each percent of change.
g.) $\$ 120$ turntable increased to $\$ 150$

$$
150-120=30 \quad \frac{30}{120}=0.25:=25 \%
$$

h.) $\$ 100$ digital watch decreased to $\$ 72$

$$
100-72=28 \quad \frac{28}{100}=0,28=28 \%
$$

Find each simple interest.
i.) $\$ 160$ ado $5.5 \%$ for 1.25 years

$$
T=p r t=(160)(0.055)(1.25)= \pm 11
$$

j.) $\$ 350$ at 0 $6 \%$ for 6 months $\frac{6}{12}=0.5$

$$
I=p r t=(350)(0.06)(0.5)=\Delta 10.50
$$

