Example (1): For each statement below, write then solve an equation to determine each number.
a) Three times a number is) -3.6

$$
\begin{aligned}
\frac{3 n}{3} & =-\frac{3.6}{3} \\
n & =-1.2
\end{aligned}
$$

b) $\begin{aligned} & \text { n number divided by (is) } 1.5\end{aligned}$

$$
\begin{aligned}
& \frac{n}{4}=1.5^{\times 4} \\
& n=6
\end{aligned}
$$

Example (2): Solve, then verify each equation.
a) $4.5 d-3.2=-18.5$
b) $\frac{r}{4}+3=7.2$

$$
\begin{aligned}
& \begin{array}{l}
4.5(-3.4)-3.2=-18.5) \\
-15.3-3.2=-18.5
\end{array} \quad d=-3.4 \\
& -18.5=-18.5 v \\
& \text { c) } \\
& 12=-2(-1.5-7 y) \\
& 12=3+14 y \\
& -3-3 \\
& \text { Check: } \\
& \frac{9}{14}=\frac{14 y}{14} \quad \stackrel{\text { ? }}{12} \stackrel{?}{5}-2\left(-1.5 \cdot 7\left(\frac{9}{14}\right)\right) \\
& y=\frac{9}{14} \\
& 12 \stackrel{?}{=}-2(-1.5-4.5) \\
& 12 \stackrel{?}{=}-2(-6) \\
& 12=12 \mathrm{~J}
\end{aligned}
$$

$$
\begin{aligned}
& \begin{array}{l}
\text { d) } \frac{3}{5}(m-2)=\frac{2}{3} \\
\frac{3}{5} \times \frac{2}{m_{x 3}}-\frac{6 \times 3}{5} \times 3=\frac{2 \times 5}{3} \times 5
\end{array} \\
& \frac{9}{15} m-\frac{18}{15}=\frac{10}{15} \\
& 9 m-18=10 \\
& +18+18 \\
& \frac{9 m}{9}=\frac{28}{9} m=\frac{28}{9}
\end{aligned}
$$

Example (3): A rectangle has length 3.7 cm and perimeter 12.2 cm .

$$
P=2 L+2 W
$$

a) Write an equation that can be used to determine the width of the rectangle.

$$
\begin{aligned}
& 12.2=2(3.7)+2 \mathrm{~W} \\
& 12.2=7.4+2 \mathrm{~W}
\end{aligned}
$$

b) Solve the equation.

$$
\begin{gathered}
12.2=7.4+2 \mathrm{~W} \\
-7.4=-7.4 \\
\frac{4.8}{2}=\frac{2 \mathrm{~W}}{2} \\
\omega=2.4
\end{gathered}
$$

c) Verify the solution.

$$
\begin{aligned}
& 12.2=7.4+2(2.4) \\
& 12.2=7-4+4.8 \\
& 12.2=12.2
\end{aligned}
$$

Example (4): Seven percent of a number is 56.7
a) Write, then solve an equation to determine the number.

b) Check the solution.


$$
\begin{array}{rl}
0.07 n & ? \\
0.07(810)^{?} & =56.7 \\
56.7 & =56.7
\end{array}
$$

