Fill in the box to make the statement true.
a) $4 \times \underline{6}=24$
b) $5 \times 12=60$
c) $700 \div 10=70$
d) $30 \div 6=5$
e) $\frac{63}{3}=21$
f) $\frac{18}{3}=6$

Steps to solving one-step equations:
Do the opposite operation to both sides of the equation to isolate $\boldsymbol{x}$.
Check your answer.

Ex. Solve and check. Show your work!

$$
\begin{gathered}
x-4=5 \\
+4=4 \\
x=9
\end{gathered}
$$

(think about the opposite)

$$
\text { check: } \begin{aligned}
x-4 & =5 \\
9-4 & =5
\end{aligned}
$$

Ex: Solve and check. Show your work!
a) $x-7=12$
b) $a+3=14$
c) $5=y+8$

$$
x=19
$$

check:
check:
check:

$$
19-7=12
$$

$$
11+13=14
$$

$$
5=-3+8
$$

Questions: Solve. Show your work!

1) $m-q=-7$

$$
\begin{aligned}
& +9+9 \\
& m=2
\end{aligned}
$$

2) $x-6=-15$
3) $a+8=4$

$$
\begin{aligned}
& +6+6 \\
& x=-9
\end{aligned}
$$

$$
a=-4
$$

4) $-7=x-4$
5) $2+m=-9$
6) $-9=y-1$

$$
\frac{+4+4}{-3=x}
$$

$+1 \quad+1$
$-8=y$

Ex. Solve and check. (Think about the opposite)
a) $2 x=10 \quad *$ divide
a) $\frac{2 x}{2}=\frac{10}{2}$

$$
x=5
$$

$$
2(5)=10
$$

b) $\frac{5 y}{5}=-3 \cdot 5^{*^{\text {multiply }}}$
$y=-15$

$$
\frac{-15}{5}=-3
$$

Example: Solve and check. Show your work!
a) $\frac{10 x}{10}=\frac{110}{10}$
b) $\frac{6 m}{6}=-\frac{42}{6}$
c) $\frac{\langle q}{A}=7(4)$

$$
x=11
$$

$$
m=-7
$$

$$
q=28
$$

check: $10(11)=110$
check: $6(-7)=-42$
check: $\frac{28}{4}=7$

Questions: Solve. Show your work!
1)

$$
\begin{gathered}
\frac{-5 x}{-5}=\frac{-40}{-5} \\
x=8
\end{gathered}
$$

4) $\frac{-12 j}{-12}=-3($

$$
j=36
$$

$$
\begin{aligned}
& \text { 2) } \frac{45}{-9}=\frac{-9 x}{-9} \\
& -5=x \\
& (5)^{22} 5=\frac{x(12 x)}{12} \\
& 60=x
\end{aligned}
$$

Example: Solve.
а) $\frac{2}{2} x=\frac{3}{4} \div \frac{2}{1}$

$$
\begin{aligned}
& x=\frac{3}{4} \times \frac{1}{2} \\
& x=\frac{3}{8}
\end{aligned}
$$

$$
\text { b) } \begin{aligned}
\frac{2 x}{2} & =\frac{5}{6} \times 2 \\
x & =\frac{5}{6} \times \frac{2}{1} \\
x & =\frac{10}{6} \\
x & =\frac{5}{3}
\end{aligned}
$$

3) 1

$$
\frac{\frac{1.5 x}{1.5}=\frac{4.5}{1.5}}{x=3}
$$

6) $\frac{(0.2}{0.2}=-2.1(0,2)$

$$
x=-0.42
$$

$$
\begin{aligned}
\frac{x}{c)} \frac{15}{x} & =5(x) \\
\frac{15}{5} & =\frac{5 x}{5} \\
3 & =x
\end{aligned}
$$

3) $\frac{45}{x} \frac{x}{=}=-9 x$

$$
\frac{45}{-9}=\frac{-9 x}{-9}
$$

$-5=x$

1) $\frac{3 x}{3}=\frac{2}{4} \div \frac{3}{1}$
$x=\frac{2}{4} \times \frac{1}{3}$
$x=\frac{2}{12}$

$$
x=\frac{1}{6}
$$

