

Inverses: opposites

$+$ \rightleftharpoons $-$

$*$ \rightleftharpoons \div

* Cancel terms
0

Kuta Software - Infinite Pre-Algebra

Name _____

One-Step Equations With Integers

Date _____ Period _____

Solve each equation. **SADMEP**

1) $v - 10 = -9$
 $\uparrow +10 \quad +10$

$v = 1$

Variable totally by itself

2) $v - 10 = -3$
 $\uparrow +10 \quad +10$

$v = 7$

3) $x - 3 = 4$
 $\uparrow +3 \quad +3$

$x = 7$

4) $\frac{x}{5} = 2$
 $\frac{5}{1} \cdot \frac{1}{5} \cdot x = 2 \cdot \frac{5}{1}$

$x = 10$

$x = 10$

$13 \overline{) 337}$
 $\underline{26}$
 77

5) $\frac{22}{-11} = \frac{-11k}{-11}$

$-2 = k$
 $k = -2$

$+$ $*$ $-$ $=$ $-$
 $-$ $*$ $-$ $=$ $+$
 $\frac{+}{-} = -$
 $\frac{-}{-} = +$

6) $\frac{-13m}{-13} = \frac{-377}{-13}$

$m = \frac{337}{13}$

7) $b - 7 = -1$
 $+7 \quad +7$

$b = 6$

8) $-8 = p - 13$
 $+13 \quad +13$

$5 = p$

9) $\frac{-40}{-5} = \frac{-5p}{-5}$

$8 = p$

10) $418 = -22a$
 $\frac{-22}{-22} \quad \frac{-22}{-22}$

$-19 = a$

11) $\frac{a}{29} = 5 \cdot 29$

$a = 145$

12) $-2 = \frac{m}{16}$
 $16 \cdot$

$-32 = m$

13) $x - 11 = 16$
 $+11 \quad +11$

$x = 27$

14) $-10 = x - 21$
 $+21 \quad +21$

$11 = x$

$$15) 20 = \frac{n}{4} \cdot 4$$

$$\boxed{80 = n}$$

$$17) -19 = b - 6$$

$$\begin{array}{r} +6 \quad +6 \\ \hline -13 = b \end{array}$$

$$19) -9 + x = -26$$

$$\begin{array}{r} +9 \quad +9 \\ \hline x = -17 \end{array}$$

$$21) 21 = \frac{x}{18} \cdot 18$$

$$\boxed{378 = x}$$

$$23) 6 = m - 16$$

$$\begin{array}{r} +16 \quad +16 \\ \hline 22 = m \end{array}$$

$$25) 168 = -84n$$

$$\begin{array}{r} -84 \quad -84 \\ \hline -2 = n \end{array}$$

$$\boxed{-2 = n}$$

$$27) \frac{x}{15} = 11 \cdot 15$$

$$\boxed{x = 165}$$

$$16) n - 29 = -53$$

$$\begin{array}{r} +29 \quad +29 \\ \hline n = -24 \end{array}$$

$$\boxed{n = -24}$$

$$18) -8 = -16 + n$$

$$\begin{array}{r} +16 \quad +16 \\ \hline 8 = n \end{array}$$

$$\boxed{8 = n}$$

$$20) 29 + n = 13$$

$$\begin{array}{r} -29 \quad -29 \\ \hline n = -16 \end{array}$$

$$\boxed{n = -16}$$

$$22) k + 1 = -27$$

$$\begin{array}{r} -1 \quad -1 \\ \hline k = -28 \end{array}$$

$$\boxed{k = -28}$$

$$24) 5 = v + 29$$

$$\begin{array}{r} -29 \quad -29 \\ \hline -24 = v \end{array}$$

$$\boxed{-24 = v}$$

$$26) 41k = -2747$$

$$\boxed{k = -67}$$

$$28) -71 = \frac{x}{64} \cdot 64$$

$$\boxed{-4544 = x}$$