

Two-Step Equations With Integers

Solve each equation.

SADMEP
+ - ÷ ** Fractions | 1st
* Distribute | 1st

Date _____ Period _____

1) $\frac{r}{10} + 4 = 5$
 $\frac{r}{10} - 4 - 4$

$\frac{r}{10} = 1$ OR $\frac{10 \cdot 1}{1 \cdot 10} r = 1 \cdot \frac{10}{1}$
 $r = 10$

2) $\frac{n}{2} + 5 = 3$

$\frac{n}{2} = -2$
 $n = -4$

3) $3p - 2 = -29$

$3p = -27$
 $p = -9$

4) $1 - r = -5$

$-r = -6$
 $r = 6$

5) $\frac{k-10}{2} = -7$ ~~$\frac{1}{2}$~~ $(k-10) = -7 \cdot 2$

$k-10 = -14$
 $k = -4$

6) $\frac{n-5}{2} = 5$

$n-5 = 10$
 $n = 15$

7) $-9 + \frac{n}{4} = -7$

$\frac{n}{4} = 2$
 $n = 8$

8) $\frac{9+m}{3} = 2$

$9+m = 6$
 $m = -3$

9) $\frac{-5+x}{22} = -1$

$-5+x = -22$
 $x = -17$

10) $4n - 9 = -9$

$4n = 0$
 $n = 0$

11) $\frac{x+9}{2} = 3$

$x+9 = 6$
 $x = -3$

12) $\frac{-12+x}{11} = -3$

$-12+x = -33$
 $x = -21$

$\frac{-12+x}{11} = -3$
 $\frac{-12+x}{11} \cdot 11 = -3 \cdot 11$
 $-12+x = -33$

13) $\frac{-4+x}{2} = 6$

$-4+x = 12$
 $x = 16$

14) $-5 + \frac{n}{3} = 0$

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

$$15) \frac{p}{4} + 8 = 7$$

$$\frac{p}{4} = -1$$

$$p = -4$$

$$16) 9 + \frac{n}{4} = 15$$

$$\frac{n}{4} = 6$$

$$n = 24$$

$$17) 6 + \frac{x}{2} = 4$$

$$\frac{x}{2} = -2$$

$$x = -4$$

$$18) \frac{b+11}{3} = -2$$

$$b+11 = -6$$

$$b = -17$$

$$19) \frac{a-10}{3} = -4$$

$$a-10 = -12$$

$$a = -2$$

$$20) -12r + 4 = 100$$

$$-12r = 96$$

$$r = -8$$

$$21) \frac{m}{16} - 9 = -8$$

$$\frac{m}{16} = 1$$

$$m = 16$$

$$22) -7 + 4r = -15$$

$$4r = -8$$

$$r = -2$$

$$23) \frac{m-13}{2} = -8$$

$$m-13 = -16$$

$$m = -3$$

$$24) -5x + 13 = -17$$

$$-5x = -30$$

$$x = 6$$

$$25) \frac{k+10}{-2} = 5$$

$$k+10 = -10$$

$$k = -20$$

$$26) \frac{p+8}{-2} = 10$$

$$p+8 = -20$$

$$p = -28$$

$$27) -14r - 19 = 303$$

$$-14r = 322$$

$$r = -23$$

$$28) \frac{x}{-4} - 5 = -8$$

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

$$x = 12$$