

Name: _____ Date: _____

Use inverse (opposite) operations to isolate the variables and solve the equations.

1) $n + 16 = 34$

$n =$

2) $22 = c + 4$

$c =$

3) $z + 21 = 40$

$z =$

4) $b - 25 = 55$

$b =$

5) $d + 6 = 15$

$d =$

6) $11f = 44$

$f =$

7) $\frac{m}{8} = 7$

$m =$

8) $4n = 52$

$n =$

9) $\frac{b}{6} = 3$

$b =$

10) $2k = -36$

$k =$

11) $5r = 5.75$

$r =$

12) $1.01 = p + 0.8$

$p =$

13) $x + 3 = -3$

$x =$

14) $n - 98 = -2$

$n =$

15) $-7 = y - 1$

$y =$

16) $\frac{h}{60} = 3$

$h =$

17) $f + 18 = 10$

$f =$

18) $100d = 2000$

$d =$

19) $-54 = -9n$

$n =$

20) $k + (-1) = 99$

$k =$

21) $19m = -19$

$m =$

Use inverse (opposite) operations to isolate the variable and solve the equations.

1) $n + 16 = 34$

$$n + 16 - 16 = 34 - 16$$

$$n = 18$$

2) $22 = c + 4$

$$22 - 4 = c + 4 - 4$$

$$18 = c$$

3) $z + 21 = 40$

$$z + 21 - 21 = 40 - 21$$

$$z = 19$$

4) $b - 25 = 55$

$$b - 25 + 25 = 55 + 25$$

$$b = 80$$

5) $d + 6 = 15$

$$d + 6 - 6 = 15 - 6$$

$$d = 9$$

6) $11f = 44$

$$\frac{11f}{11} = \frac{44}{11}$$

$$f = 4$$

7) $\frac{m}{8} = 7$

$$m = 8 \cdot 7$$

$$m = 56$$

8) $4n = 52$

$$\frac{4n}{4} = \frac{52}{4}$$

$$n = 13$$

9) $\frac{b}{6} = 3$

$$b = 3 \cdot 6$$

$$b = 18$$

10) $2k = -36$

$$\frac{2k}{2} = \frac{-36}{2}$$

$$k = -18$$

11) $5r = 5.75$

$$\frac{5r}{5} = \frac{5.75}{5}$$

$$r = 1.15$$

12) $1.01 = p + 0.8$

$$1.01 - 0.8 = p + 0.8 - 0.8$$

$$0.21 = p$$

13) $x + 3 = -3$

$$x + 3 - 3 = -3 - 3$$

$$x = -6$$

14) $n - 98 = -2$

$$n - 98 + 98 = -2 + 98$$

$$n = 96$$

15) $-7 = y - 1$

$$-7 + 1 = y - 1 + 1$$

$$-6 = y$$

16) $\frac{h}{60} = 3$

$$h = 3 \cdot 60$$

$$h = 180$$

17) $f + 18 = 10$

$$f + 18 - 18 = 10 - 18$$

$$f = -8$$

18) $100d = 2000$

$$\frac{100d}{100} = \frac{2000}{100}$$

$$d = 20$$

19) $-54 = -9n$

$$\frac{-54}{-9} = \frac{-9n}{-9}$$

$$6 = n$$

20) $k + (-1) = 99$

$$k + (-1) - (-1) = 99 - (-1)$$

$$k = 100$$

21) $19m = -19$

$$\frac{19m}{19} = \frac{-19}{19}$$

$$m = -1$$