Name _____ Date _____

Variables and Equations

Solving One-Step Equations (Addition and Subtraction)

$$12 + x = -24$$
$$12 + (-12) + x = -24 + (-12)$$
$$x = -36$$

Solve each equation for the given variable.

1. $-13 + b = 31$

2. $n + \frac{3}{8} = \frac{5}{8}$

3. $x - 17 = -27$

4. $27 = v + (-5)$

5. $-4 = x - 3$

6. $c - 3 = 4.7$

7. $a + 5.7 = 18.9$

8. $12 - (-u) = 17$

9. $-200 = b + (-73)$

10. $-13 + x = 18$

11. $-t + (-7) = -56$

12. $3 + x = 9$

13. $z + 3.5 = 4.7$

14. $12 + (-g) = 10$

15. $y - 12 = 15$

16. $2\frac{1}{3} + r = 4\frac{2}{9}$

17. $x + 2 = 2(3 - 4)$

18. $s - 5 = 6 + (-8)$

19. $-13 = n + (-39)$

20. $r = 4.4 + 3.9$

Name _____ Date _____

Variables and Equations

Solving One-Step Equations (Multiplication and Division

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

$$-\frac{3}{4y} = -6$$
$$-\frac{4}{3} \cdot -\frac{3}{4y} = -6 \cdot \frac{4}{3}$$
$$y = 8$$

Solve each equation for the given variable.

1. $12.8 = 4b$
2. $4b = -36$
3. $-13h = 169$
4. $-\frac{3}{4} = \frac{n}{16}$
5. $10x = -100$
6. $4c = 288$
7. $7x = -63$
8. $4y = -48$
9. $6x = -36$
10. $\frac{8}{k} = \frac{2}{5}$
11. $-(-90) = -45z$
12. $-\frac{x}{8} = \frac{1}{4}$
13. $-50 = 2x$
14. $\frac{2}{n} = \frac{1}{y}$
15. $\frac{4}{x} = \frac{2}{9}$
16. $\frac{x}{6} = \frac{6}{9}$
17. $-35c = 700$
18. $-4x = -20$
19. $-\frac{x}{6} = \frac{2}{3}$
20. $1.6c = 80$