Complete the following questions on loose-leaf. Write questions, show work, and box in the answer.

Simplify.

1.
$$-8 + 13$$

$$2. -47 - 13$$

3.
$$-23(5)$$

4.
$$-54 \div (-6)$$

5.
$$\frac{3}{8} + \frac{1}{6}$$

Evaluate each expression.

6.
$$30 - 14 \div 2$$

7.
$$24 \div 6 - 2^3 * 4$$

7.
$$24 \div 6 - 2^3 * 4$$
 8. $-108 \div [3(9+3^2)]$

9. Evaluate the expression if
$$g = 2$$
, $r = 3$, and $t = 11$.

$$3g(g+r)^2-1$$

10. Evaluate the expression if
$$a = 8$$
, $b = 4$, and $c = 16$.

$$\frac{2b+3c^2}{4a^2-2b}$$

Solve the following equations.

11.
$$v + 17 = -42$$

12.
$$x - 12 = 27$$

13.
$$-34 + w = 77$$

14.
$$54 + y = -13$$

15.
$$\frac{5}{8}$$
 + $x = \frac{7}{8}$ 16. $3w + 7 = -8$

16.
$$3w + 7 = -8$$

17.
$$8 = 16 + 8n$$

18.
$$1 + \frac{r}{9} = 4$$

18.
$$1 + \frac{r}{9} = 4$$
 19. $9x + 27 = -72$

$$20. \quad \frac{y}{4} - 6 = 8$$

Write an algebraic expression for each variable expression.

- one third of a number 21.
- 22. three times the sum of a number and five
- 23. ten less than the product of seven and f
- 34. one minus the quotient of r and seven
- 25. Destiny earns \$8 per hour babysitting and \$15 for each lawn she mows. Write an expression to show the amount of money she earns babysitting h hours and mowing m lawns.

Simplify each expression.

26.
$$2(x+4)$$

27.
$$\frac{1}{3}(6x-27)$$

28.
$$13r + 5r$$

29.
$$7m + 7 - 5m$$

30.
$$-3x + 7(3x + 4)$$