Practice 1-5

Example Exercises

Example 1

Simplify each expression.

1.
$$-48 \div 6$$

4.
$$16 \div (-4)$$

7.
$$-13 + (-2)(17)$$

10.
$$\frac{-64}{8} + 3(-4)(2)$$

2.
$$(-23)(-3)$$

5.
$$(14)(-5)(-3)$$

8.
$$(-3)(4) + 8(-7)$$

11.
$$(-32) \div (-16) + 2(-6)$$
 12. $(-7)(-15) - (\frac{-18}{3})$

3.
$$(-6)(32)$$

6. $(24)(-2) - 15$

9.
$$(-7)(-3) - (-11)(-6)$$

12.
$$(-7)(-15) - \left(\frac{-18}{3}\right)$$

Evaluate each expression for x = -6, y = 3, and z = -5.

13.
$$7x - z$$

16.
$$\frac{10x}{y-1}$$

19.
$$\frac{2(x-y)}{5}$$

17.
$$\frac{xy}{z-1}$$

20.
$$xy + 8z$$

15.
$$4y \div (-3z)$$

18.
$$5z - 4xy$$

21.
$$\frac{-5(x+y)}{3}$$

Example 2

Find the mean rounded to the nearest tenth.

23.
$$23$$
, -10 , -8 , 33 , 28 , -13

Example 3

Simplify each expression.

28.
$$(-5)^3$$

29.
$$(-4)^4$$

30.
$$-2^4$$

31.
$$4^2 + (-7)^2$$

32.
$$-(-3)^3$$

33.
$$-8^2 - (-9)^2$$

34.
$$\left(\frac{-18}{6}\right)^3$$

35.
$$-(-6)^3 \div (-3)^2$$

36.
$$\frac{12^2}{(-2)^3}$$

Evaluate each expression for x = -4, y = -3, and z = 2.

37.
$$x^3$$

40.
$$(x + z)^3$$

43.
$$3x^2 \div y$$

46.
$$\frac{6x}{-y} + z^3$$

38.
$$x^2z$$

41.
$$\frac{-6y^2}{z}$$

44.
$$3x - y^2$$

47.
$$x^3 \div z^2$$

42.
$$4x^2 - z$$

45.
$$x^2y^3$$

48.
$$(xyz)^2$$