

**Evaluate the Expression.**

1.  $8 + a$  when  $a = 5$

2.  $27 - h$  when  $h = 21$

3.  $\frac{p}{4}$  when  $p = 16$

4.  $7 + y^2$  when  $y = 3$

5.  $\frac{2m+9}{m}$  when  $m = 2$

6.  $\frac{3x}{x-1}$  when  $x = 3$

7.  $y + 12$  when  $y = 29$

8.  $47 - x$  when  $x = 38$

9.  $16 \div 8 \cdot 5$

10.  $7^2 - 24 \div 3$

11.  $18 \div 6 + 4 \cdot 3$

12.  $8(6 - 2) + 4$

13.  $13 - 15 \div 5 + 9$

14.  $\frac{4}{5}(3 \cdot 20) - 17$

15.  $3x^4 - 5$  when  $x = 2$

16.  $7(x + 5)$  when  $x = 10$

**Translate the verbal phrase into an expression.**

17. 10 more than  $\frac{1}{2}$  of a number  $r$

18. Twice a number  $d$

19. The difference of 19 and  $t$

20. The sum of a number  $p$  and the square of a number  $b$

**Solve.**

21.  $x + 6 = 14$

22.  $n + 3 = 8$

23.  $15 = w + 4$

24.  $y - 7 = 12$

25.  $a - 2 = 10$

26.  $22 = 8 + x$

27.  $4n + 8 = 12$

28.  $5y + 2 = 10$

29.  $8x - 15 = 1$

30.  $3c - 4 = 5$

31.  $12 = 7 - m$

32.  $19 = 10 - b$

33.  $\frac{p}{2} + 3 = 11$

34.  $\frac{z}{4} + 6 = 16$

35.  $\frac{x}{5} - 4 = 2$

36.  $3a + 2a + 7 = 12$

37.  $9n - 4 + n = 16$

38.  $7c + 3 - 5c = 15$

39.  $2 + 3(x + 1) = 17$

40.  $15 + 4(m - 2) = 21$

41.  $2p + 3(p + 3) = 21$

42.  $9x - 2 = 8x + 7$

43.  $5n - 3 = 3n + 1$

44.  $4z - 5 = 8z + 3$

45.  $\frac{x}{2} = \frac{10}{12}$

46.  $\frac{3x}{5} = \frac{6}{5}$

47.  $\frac{7x}{2} = \frac{14}{4}$

48.  $\frac{j+4}{6} = \frac{18}{12}$

49.  $\frac{m+18}{m} = \frac{5}{2}$

50.  $\frac{d+4}{2d+2} = \frac{3}{4}$

51.  $\frac{f-9}{-3} = \frac{11-f}{5}$

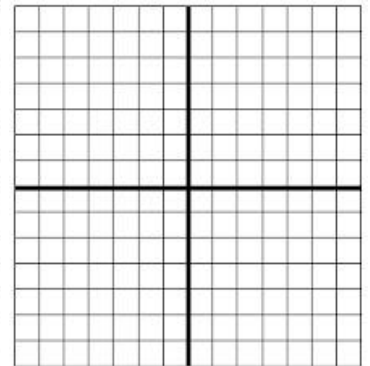
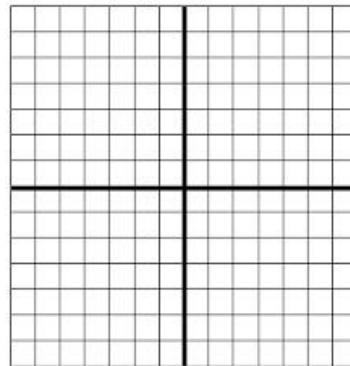
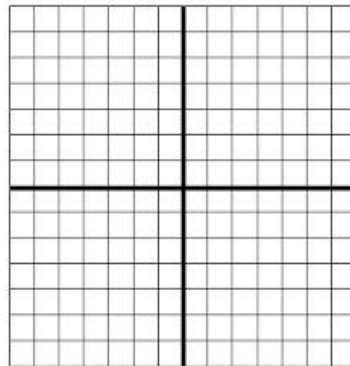
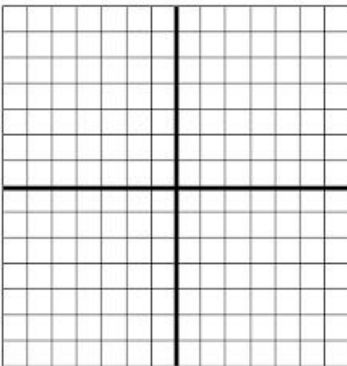
**Graph.**

52.  $6x + 2y = 12$

53.  $x + 3y = 9$

54.  $y = 2$

55.  $y = \frac{1}{3}x - 1$

**What is the slope and y-intercept.**

56.  $y = 2x + 11$

57.  $x = 1$

58.  $6x + 2y = 12$

59.  $x + 3y = 9$