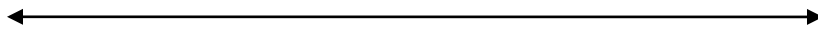


Choose the correct answer.

1. Evaluate $3x+5$ if $x = 4$.
a. 12 b. 27 c. 17 d. 32
2. Evaluate $(2x)^3$ if $x = 5$.
a. 30 b. 40 c. 250 d. 1000
3. Name the property illustrated by the following: $(5 + 6) + 3 = 5 + (6 + 3)$
a. Commutative Property of Addition b. Distributive Property
c. Associative Property of Addition d. Identity Property of Addition
4. Simplify: $[3(7 - 2)] \div (9 - 6)$.
a. 2 b. 5 c. 6 d. 7
5. Simplify. $3x^2 + 7x^2$
a. 10 b. $10x^2$ c. $10x$ d. $10x^4$
6. Write an algebraic expression for the next odd number after an odd number x .
a. 1 b. x c. $x + 1$ d. $x + 2$
7. What is the absolute value of -3 ?
a. -3 b. 0 c. 3 d. none of these
8. Simplify $-23 + (-17)$
a. -40 b. -6 c. 6 d. 40
9. Simplify. $35 - (-18)$
a. -53 b. -17 c. 17 d. 53
10. Simplify: $-5(6)(-18)$
a. 60 b. -48 c. -18 d. 540
11. Simplify: $0.23 \div (-9.2)$
a. -40 b. -0.025 c. 0.025 d. 40
12. Simplify: $4m^5(3m)$
a. $7m^5$ b. $12m^5$ c. $12m^6$ d. $7m^6$
13. Name the coefficient in $2x^3y^4$
a. 3 b. 2 c. 7 d. 4
14. Evaluate: $x^2(xy)^3$ if $x = 4$ and $y = -3$.
a. 288 b. 27,648 c. -288 d. $-27,648$

15. Simplify: $-(9)^2 - 4 + 2.3(0.8)$
 a. -83.16 b. 80.1 c. -81.9 d. None of these
16. Give the degree of $3x^2y^4$
 a. 3 b. 2 c. 4 d. 6
17. Which set describes the set of whole numbers?
 a. $\{1, 2, 3, 4, \dots\}$ b. $\{0, 1, 2, \dots\}$ c. $\{\dots - 2, - 1, 0, 1, 2, \dots\}$
18. If $x < 0$, then $|x| = \underline{\hspace{2cm}}$.
 a. $-x$ b. x c. 0 d. None of these
19. Simplify: $-249 + 53$.
 a. 216 b. -196 c. 302 d. -302
20. Simplify: $-123 - 78$.
 a. -45 b. 201 c. 45 d. -201
21. Simplify: $-18(12)(-15)$
 a. -231 b. -3240 c. 3240 d. 54
22. Simplify: $\frac{-7}{8} \div \frac{13}{16}$.
 a. $\frac{-14}{13}$ b. $\frac{-91}{128}$ c. $\frac{-13}{14}$ d. None of these
23. Solve. $0.5 = y + 3.91$
 a. -3.41 b. 3.96 c. 4.41 d. None of these
24. Solve: $-8.05 - x = 15.9$
 a. 7.85 b. 23.95 c. -7.85 d. -23.95
25. Solve: $\frac{3}{5}x = -15$.
 a. 40 b. 25 c. -25 d. -40
26. Solve: $|r - 5| > 2$. Graph the solution set on the number line.



27. Simplify: $(2x^2 - 5xy + 3) + (x^2 + 4xy + 5)$.

a. $3x^2 + 9xy + 8$

b. $3x^2 - xy + 8$

c. $3x^2 + xy + 8$

28. Simplify: $(10x - 4xy - 2y) - (-3x + 5xy + 8y)$.

a. $13x - 9xy - 10y$

b. $7x - xy - 6y$

c. $7x - 9xy - 10y$

29. Simplify: $(3x^2)^3$.

a. $9x^5$

b. $9x^6$

c. $27x^5$

d. $27x^6$

30. Simplify: $(-8m^2)(2m)^2$.

a. $16m^4$

b. $-16m^4$

c. $-32m^4$

d. $-32m^2$

31. Simplify: $-3x(5x^2 + 6xy + 9y^2)$

a. $-15x^3 - 18x^2y - 27xy^2$

b. $-15x^2 - 18xy - 27y^2$

c. $2x^2 - 3x^2y - 6xy^2$

32. Simplify: $(2a - 6)(a + 5)$

a. $2a^2 + 16a - 30$

b. $2a^2 + 4a - 30$

c. $2a^2 - a - 1$

d. $2a^2 - 4a - 30$

33. Simplify: $(x - 4)^2$

a. $x^2 - 8x - 8$

b. $x^2 - 16$

c. $x^2 + 16$

d. $x^2 - 8x + 16$

34. Solve: $2(3x + 5) - 3x = 2(x + 4) - 3(2x + 6)$

a. 4

b. $\frac{-20}{7}$

c. 0

d. $\frac{-16}{7}$

35. Simplify: $\frac{x^6y^8}{x^2y^4}$

a. x^3y^2

b. x^8y^{12}

c. $x^{12}y^{32}$

d. x^4y^4

36. Simplify: $\frac{-40x^3}{5x^7}$

a. $8x^4$

b. $\frac{-8}{x^4}$

c. $-8x^4$

d. $\frac{8}{x^4}$

