

## ALGEBRA 1 ASSESMENT TEST

1.  $\frac{(-3)(-4)}{-6} =$

- A. 2
- B. -2
- C. -3
- D. 3

2.  $7 + 3(5 - 8) =$

- A. 30
- B. 42
- C. -30
- D. -2

3. If  $3X + 4 = 7X - 2$ , then  $x =$

- A.  $\frac{3}{2}$
- B.  $\frac{3}{5}$
- C.  $\frac{1}{2}$
- D.  $\frac{1}{5}$

4.  $\frac{6m^2 + 2m}{2m} =$

- A.  $6m^2$
- B.  $6m^2 + 1$
- C.  $3m$
- D.  $3m + 1$

5. The length of a rectangle is 4 inches longer than the width. If the perimeter is 28 inches, what is the width?

- A. 12 inches
- B. 2.8 inches
- C. 6 inches
- D. 5 inches

6. If  $X = -1$ , then  $2x^3 + 7x^2 - 7x - 30 =$

- A. -28
- B. -18
- C. -32
- D. -46

7. Solve the inequality  $3x - 2 > 7x + 10$

- A.  $x \neq 3$
- B.  $x < -3$
- C.  $x > -3$
- D.  $x \neq -3$

8.  $(2x + 5)(3x - 4) =$

- A.  $6x^2 - 20$
- B.  $6x^2 + 7x - 20$
- C.  $6x^2 - 7x - 20$
- D.  $5x^2 + 1$

9.  $14a + 16b - a + 2b =$

- A.  $14 + 18b$
- B.  $13a + 14b$
- C.  $13a + 18b$
- D.  $13a^2 + 18b^2$

10.  $ab^3 + ba^3 =$

- A.  $ab(b^2 + a^2)$
- B.  $ab(b^3 + a^3)$
- C.  $ab^2(b + a)$
- D.  $a^2b(a + b)$

11.  $(-2x^2)(3x^2y^2)(-y) =$

- A.  $y$
- B.  $6x^4y^3$
- C.  $-6x^2y^2$
- D.  $x^4y$

12.  $\frac{15x^6y}{3x^2y^2} =$

A.  $5x^4y^2$

B.  $\frac{5x^3}{y^2}$

C.  $\frac{5x^4}{y}$

D.  $\frac{12x^4}{y^2}$

13.  $(4x + 3)^2 =$

A.  $16x^2 + 24x + 9$

B.  $16x^2 + 9$

C.  $16x^2 + 12x + 9$

D.  $16x^2 + 7x + 9$

14.  $(3x + 2) - (x - 4) =$

A.  $2x + 6$

B.  $9$

C.  $4x - 2$

D.  $2x - 6$

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

A.  $(2x - 1)(x + 3)$

B.  $(2x + 3)(x - 1)$

C.  $(2x + 1)(x - 3)$

D.  $(2x - 3)(x + 1)$

16. Which of the following is a factor of  $x^2 - x - 12$ ?

A.  $x + 2$

B.  $x + 3$

C.  $x - 6$

D.  $x + 4$

17. If  $2x + 3y = 6$ , then  $y =$

- A.  $2 - 2x$
- B.  $-\frac{2}{3}x + 2$
- C.  $\frac{2}{3}x + 2$
- D.  $\frac{2}{3}x + 3$

18.  $\frac{3}{y} + \frac{2}{5y^2} =$

- A.  $\frac{1}{y^3}$
- B.  $\frac{3y+2}{y^2}$
- C.  $\frac{5}{5y^2+y}$
- D.  $\frac{15y+2}{5y^2}$

19. If  $4(2x + 5) - (x + 5) = 0$  then  $x =$

- A. 0
- B.  $-\frac{15}{7}$
- C.  $-\frac{25}{7}$
- D.  $-\frac{18}{11}$

20. If  $x^2 - 64 = 0$ , then  $x =$

- A. -8 or -8
- B. 8 or 8
- C. -8 or 8
- D. 32 or -32

21. The y-intercept of the graph of  $3x - 2y = 8$  is:

- A.  $\frac{8}{3}$
- B. -4
- C. 8
- D.  $\frac{3}{2}$

22.  $|3 - 5| =$

- A. -8
- B. 8
- C. -2
- D. 2

23. The sum of two numbers is 15. If one of the numbers is four times as large as the other, what is the value of the smaller number?

- A. 5
- B. 2
- C. 4
- D. 3

24.  $(3x^{-3}y^2)^3 =$

- A.  $\frac{3y^6}{x^9}$
- B.  $\frac{27y^6}{x^9}$
- C.  $\frac{9y^6}{x^9}$
- D.  $27xy^5$

25.  $\frac{x^3}{y} \div \frac{x}{y^3} =$

- A.  $x^2y^2$
- B.  $\frac{x^4}{y^4}$
- C.  $\frac{x}{y}$
- D.  $\frac{1}{x^2y^2}$

### ANSWER KEY

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1=B 2=D 3=A 4=D 5=D 6=B 7=B 8=B 9=C 10=A 11=B 12=C 13=A 14=A 15=C  
16=B 17=B 18=D 19=B 20=C 21=B 22=D 23=D 24=B 25=A