

A Quick Little Algebra Quiz

Directions: Put the letter for the best answer in the space provided.

_____ 1. $-30 + 10 \div 2 =$
(A) -150 (B) -20 (C) -10 (D) -25

_____ 2. $2(3X - Y + 5) - 4(X + 5Y - 1) =$
(A) $2X + 4Y + 4$
(B) $2X - 22y + 14$
(C) $2X + 18Y + 6$
(D) $2X^2 - 22Y^2 + 14$

_____ 3. Given $2(3X + 11) = 8X + 2$ $X =$
(A) 40 (B) 12 (C) 10 (D) $\frac{9}{2}$

_____ 4. Given $\frac{X}{6} + 5 = \frac{1}{3}$
(A) 36 (B) -24 (C) -3 (D) -28

_____ 5. $(X + 7)(X - 3) =$
(A) $X^2 - 21$
(B) $X^2 - 4X - 21$
(C) $X^2 + 4X - 21$
(D) $X^2 + 4X + 21$

_____ 6. $(X - 5)^2 =$
(A) $X^2 - 25$
(B) $X^2 + 10X + 25$
(C) $X^2 - 10X + 25$
(D) $X^2 + 25$

_____ 7. $(2^3)^2 \cdot 2^5 \cdot 2 =$
(A) 2^{12} (B) 2^{11} (C) 4^{12} (D) 2^{30}

- _____ 8. Given $-2X + 6 > 8$ Solve for X.
(A) $X > -1$ (B) $X > -7$ (C) $X < -1$ (D) $X < 1$
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- _____ 9. $X^2 - X - 42 =$
(A) $(X - 6)(X + 7)$
(B) $(X + 6)(X - 7)$
(C) $(X - 42)(X + 1)$
(D) Cannot be factored.
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- _____ 10. $\frac{XY}{10} \div 5XY^2 =$
(A) $50Y$ (B) $\frac{1}{2}X^2Y^3$ (C) $\frac{1}{50Y}$ (D) $\frac{X}{25Y}$
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- _____ 11. $\frac{9X + 18}{3X + 6} =$
(A) $3X + 3$ (B) 3 (C) $X + 3$ (D) $3X$
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- _____ 12. $\frac{X}{3} + \frac{X}{4} =$
(A) $\frac{2X}{7}$ (B) $\frac{7X}{12}$ (C) $\frac{X}{6}$ (D) $\frac{7X}{24}$
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- _____ 13. $\sqrt{80} =$
(A) $4\sqrt{5}$ (B) $10\sqrt{2}$ (C) 40 (D) $16\sqrt{5}$
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- _____ 14. $\sqrt[3]{-27} =$
(A) -9 (B) 3 (C) -3 (D) no solution
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- _____ 15. Given $X^2 - 3X - 10$ $X =$
(A) $\{-2, 5\}$ (B) $\{-5, 2\}$ (C) $\{2, 5\}$ (D) $\{-3, -10\}$
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Answers: (1) D (2) B (3) C (4) D (5) C
(6) C (7) A (8) C (9) B (10) C
(11) B (12) B (13) A (14) C (15) A

Grade Yourself:

If you scored 14 - 15 correct, give yourself an A. Excellent!

If you scored 12 - 13 correct, give yourself a B. Very Good!

If you scored 10 - 11 correct, give yourself a C. Good, but need to review.

If you scored 8 - 9 correct, give yourself a D. Need to do some work to improve.

If you scored below 8, then you failed. Need to work hard and improve your skills.