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7th Grade Algebra Worksheets


Questions

1. Solve the equation: $13x - 30 = -4$
2. Simplify the following expression: $x^2 - 4x - 2 + 9x - 1$
3. Translate the verbal phrase into an algebraic expression:
Two-ninth of x decreased by five x is equal to a 7
4. Evaluate the algebraic expressions for the given values of each variable: $6x \times \frac{5y}{21}$, where $x = 1$, $y = 7$
5. Identify the terms and like terms in each expression:
 $x + 7x^2 - 5 - 4x + 4$
6. Find the sum: $(2y + 5 - 4z) + (3z - 10 + 5y)$
7. Fill in the blank

 $- 2$  $= 11$

 $+ 5$  $= 22$

 $=$?

 $=$?

8. 2 years ago, the age of Ben's grandmother was 6 times the age of Ben. If his grandmother is 80 years old now, how old is Ben now?
9. The perimeter of a rectangular courtyard is numerically equal to five times the area of the courtyard. If the width of the courtyard is 0.5km, then what is the length of the courtyard?



10. If $5x = 9y = 11$, then $45xy =$
- a. 115
 - b. 125
 - c. 121
 - d. 145
11. Find the difference: $(x + y - 9) - (-13 + 3y - 9x)$
12. Callum got gifts for 6 of his friends and divided it equally among them. While travelling home, 4 of the gifts got lost. Find out how many gifts Callum initially had if each of his friends finally got 2 gifts each.

13. The sum of 2 alternate odd numbers is 34. The number are__ and __
14. What is the algebraic statement for -"z divided by 6 is less than x cubed decreased by 8"?
- a. $z < 6(x - 2) (x^2 + 2x + 4)$
 - b. $z < 6(x^3 + 8)$
 - c. $6z < (x^3 - 8)$
 - d. $z < 6(x - 2) (x^2 + 4x + 2)$
15. In a game of darts, 5 points are awarded for the inner circle and 2 is awarded for the outer circle. If Tom plays the 20 rounds of the game and gets 64 points, find the number of times he hits the inner circle

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ANSWERS

1) 2	2) $x^2 - 5x - 3$	3) $(2x/9) - 5x = 7$
4) 10	5) Terms: $x, 7x^2, 5, 4x, 4$ Like terms: x and $4x$, 5 and 4	6) $7y - 5 - z$
7) Watermelons : 5 Apples : -2	8) 15	9) 2
10) 121	11) $10x - 2y + 4$	12) 16
13) 15 and 19	14) $z < 6(x-2)(x^2 + 2x + 4)$	15) 8

FUN FACT

1. . Algebra was developed by the Greeks and Babylonian mathematicians.
2. Algebra is a Latin word derived from the Arabic word 'Al-Jabr'.
3. The first book on algebra was written in the 9th century by Muhammad ibn Mūsā al-Khwārizmī.

