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7th Grade Algebra Worksheets

Questions

1. Solve the equation: 5x + 19 = 4

2. Simplify the following expression: $3x + \frac{4}{3} - 6x + \frac{2}{3}$

3. Translate the verbal phrase into an algebraic expression: A third of x increased by four-fifths is equal to a quarter

4. Evaluate the algebraic expressions for the given values of each variable: $\frac{x+y}{2} - \frac{x}{3}$, where x = 3, y = -1

5. Identify the terms and like terms in each expression: $6 - a^2 + 5a - 13 + 7a$

6. Find the sum: (5x + 4 - 2y) + (2y - 7 + 3x)

7. Fill in the blank

 + + = 15

 − 4 = −5

 + + = _____?

8. 10 years ago, the age of Ron's mother was 5 times the age of Ron. If his mother is 30 years old now, how old is Ron now?

9. The perimeter of a rectangle is numerically equal to the area of the rectangle. If the width of the rectangle is 4cm, then what is the length of the rectangle?

4 cm

10. If 2x = 4y = 12, then 30xy =
    a. 520
    b. 530
    c. 550
    d. 540

11. Find the difference: (3x - 4y + 5z) - (2y - 8z + x)

12. Dave bought a few chocolates and divided it equally among four of his friends and his brother Jack. While eating, Jack lost 2 of the chocolates and had only 9 left. Find out how many chocolates Dave bought at the store.

13. The sum of 2 consecutive odd numbers is 24. The number are__ and __

14. What is the algebraic statement for -"z multiplied by 5 is greater than the whole square of the sum of x and 10"?
    a. $5z > (x + 10)^2$
    b. $5z < (x + 10)^2$
    c. $5z > (x^2 + 10)$

d. $z > 5(x^2 + 100 + 2x)$

15. In an exam, 3 marks are awarded for every correct answer and 2 is subtracted for every wrong answer. If Matt answers 20 questions and gets 50 marks, find the number of correct answers

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- Gary Schwartz

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"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

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ANSWERS

1) -3	2) -3x + 2	3) (x/3) + 4/5 = 1/4
4) 0	5) Terms: 6, $-a^2$, 5a, -13, 7a Like terms: 5a and 7a, 6 and -13	6) 8x-3
7) 25	8) 6	9) 4
10) 540	11) 2x - 6y +13z	12) 65
13) 11 and 13	14) 5z > $(x + 10)^2$	15) 18

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.