Subject: Mathematics

Class: 7

Topic: Identifying Variables, Constants, and Terms

Levels: Basic, Intermediate, Advanced

Level: Basic

1. In the expression 5x + 9, the constant term is _____.

2. Identify the variable in the expression 12p - 7: _____.

3. How many terms are there in the expression 3x + 4y + 5? _____.

4. In the term -7xy, the numerical coefficient is _____.

5. A symbol which can take various numerical values is called a _____ (Variable/Constant).

6. Identify the terms in the expression: 2a + 3b - 5. (_____, _____, _____)

7. Write the variable part of the term $15mn^2$: _____.

8. Is '100' a constant or a variable? _____.

9. In the expression ? 50 + x, which part is the variable? _____.

10. Represent '10 more than a number z' as an algebraic expression: _____.

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Level: Intermediate

1. Rahul has ? x and Amit has ? 20. Total money is expressed as _____.

2. Identify the like terms in: 3x, 4y, -5x, 8z. (_____ and _____)

3. Write the algebraic expression for: 'The sum of a^2 and b^2 subtracted from 10'. _____.

4. What is the coefficient of y in the expression 4x - 7y + 2z? _____.

5. If x = 2, find the value of the constant-only expression 10 + 5: _____.

6. In the expression $3a^2 - 5ab + 7$, identify the term containing 'ab': _____.

7. True or False: In the expression 5x + 5, both terms are like terms. _____.

8. Write the factors of the term $4xy^2$: (_____, _____, _____, _____)

9. Anila has n chocolates. She gives 5 to Priya. Remaining chocolates = _____.

10. Classify 4y - 7z as a Monomial, Binomial, or Trinomial: _____.

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Level: Advanced

1. If the perimeter of a square is 4s, identify the variable and the constant: _____.

2. Create an expression: 'Product of p and q added to the quotient of x by 5'. _____.

3. Find the numerical coefficient of x in the expression: (3/4)x + ?. _____.

4. In the formula for area of a circle (A = ?r?), which symbol is a constant? _____.

5. Identify the terms which are NOT constants in: 1.2a - 2.4b + 3.6. _____.

6. If x is the number of sides in a polygon, what is the variable for a hexagon? _____.

7. Write the expression for: '5 times the sum of x and y, decreased by 10'. _____.

8. Identify the algebraic factors of the term $-mn^2$: (_____, _____, _____).

9. Find the value of the expression $2x^2 + 3$ when x = 5: _____.

10. In the expression ? + 2x + 5, list the variable terms: _____.