Evaluate, Algebraic Expressions

Class VII, Mathematics

Q1. Find the value of $4xy(x + y) - 5x^2(y - y^2) - 3y^2(2x^2 - y)$ for $x = 1$ and $y = 2$.

A. 51
B. 36
C. 38
D. 34

Q2. If $x = 2$, $y = 1$ and $z = 1$, then the value of expression $2x^2y + 3xy^2 - z^3$ is _____.

A. 4194311
B. 4194310
C. 4194308
D. 4194309

Q3. Find the value of $1xy(x - y) - 2x^2(y - y^2) + 1y^2(3x^2 + y)$ for $x = 3$ and $y = 1$.

A. 34
B. 41
C. 14
D. 23

Q4. The value of $8x^2 + 4y^2 - 10xy$ when $x = 5$ and $y = 3$ is _____.

A. 86
B. 91
C. 92
D. 84

Q5. If P = 2a + 5b, Q = 1a - 4b and R = 1a - 5b, then P + Q + R is equal to ____.

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

Q6. The degree of $2x^2y + 3xy^2 - z^3$ is

A. 4
B. 2
C. 1
D. 3

Q7. The value of $10x^2 + 2y^2 - 5xy$ when x = 2 and y = 5 is _____.

A. 34
B. 36
C. 40
D. 43

Q8. The degree of $2n^3 + 5o - 3p^2$ is

A. 4

B. 2
C. 3
D. 1

Q9. If l = 4 and m = 2, then the value of $3l^3 - 2l^2m + 4lm^2 - m^3$ is _____.

A. -35184372088599
B. -35184372088579
C. -35184372088574
D. -35184372088584

Q10. If P = 5a + 2b, Q = 5a - 2b and R = 2a - 5b, then P + Q + R is equal to ____.

A. 10a-3b
B. 12a-5b
C. 12a-7b
D. 10a-7b

Answer Sheet

Q1. D	Q2. D	Q3. A
Q4. A	Q5. B	Q6. D
Q7. C	Q8. C	Q9. D
Q10. B		