

SUBJECT – MATHEMATICS, CLASS -VI
CHAPTER -6(INTRODUCTION TO ALGEBRA)
WORKSHEET (ADVANCE)

TIME - 45 MIN MAX.MARKS: 20

Choose the correct option: (1×2=2)

1. $(-4a) \times (5b) = (5a) \times$ -----
a) $4b$ b) $5b$ c) $-4b$ d) $-5b$
2. If we subtract $2x$ from $-5x$, we get
a) $-3x$ b) $-7x$ c) $7x$ d) $3x$

Fill in the blanks: (1×2=2)

3. The algebraic expression for '5 times n subtracted from 2 times n ' is -----.
4. Number of pens that can be bought for Rs x is -----, if cost of each pen is Rs 15.

Answer the following: (2×1 =2)

5. Algebraic expression ' $7a^2b - 2ab^2 + 5ba^2$ ' is a binomial or trinomial? Give reason to your answer.
6. Evaluate $(2pq - 3qr - pr) \div 5pr$, if $p = -1$, $q = 3$ and $r = -2$

Short answer type- I(2×2 =4)

7. Subtract $-4x^2 + 5xy$ from $2x^2 - 7x - 6xy$.
8. Write the product form of $(-4m)^3$ and $-4m^3$. Are those two same?

Short answer type -II (3×2=6)

9. From a sum of Rs 1000, Rs q is spent to purchase a water bottle and twice of Rs q is spent to purchase a school bag. Find the algebraic expression to represent the remaining amount.
10. If $a = -1$ and $b = 3$, show that $3a + 5b = b - 9a$.

Long answer type question: (4×1=4)

11. In an office, every month, x number of employees get a salary of Rs 50,000 each and 45 employees get a salary of Rs y each. Find the (i) total number of employees (ii) total amount given as salary.