

Subject: - Mathematics

PRACTICE PAPER (MCQ)

CBSE-8th

Topic: - Factorisation

1. Factors of $a^2 - b^2 + 2bc - c^2$ are: -

Ans. (c)

- a) $(a + b + c)$ and $(a - b + c)$ b) $(a + b - c)$ and $(a + b + c)$
c) $(a - b + c)$ and $(a + b - c)$ d) $(a + b + c)$ and $(a - b - c)$

2. Factors of $xy^2 + y(x - 1) - 1$ are: -

Ans. (d)

- a) $(xy + 1)(y - 1)$ b) $x(y + 1)(y - 1)$
c) $y(x - 1)(y + 1)$ d) $(xy - 1)(y + 1)$

3. Factors of $6xy - 4y + 6 - 9x$ are: -

Ans. (b)

- a) $(3y - 2)(2x - 3)$ b) $(3x - 2)(2y - 3)$
c) $(2y - 3)(2 - 3x)$ d) None of these.

4. Factors of $x^2 - 4xy + 4y^2$

Ans. (d)

- a) $(x + y)(x - 4y)$ b) $(x + 4y)(x - y)$
c) $(x^2 - 2y)(x^2 + 2y)$ d) $(x - 2y)^2$

5. Factors of $y(y - z) + 9(z - y)$ are: -

Ans. (d)

- a) $(y - z)(y + 9)$ b) $(z - y)(y + 9)$
c) $(y - z)(y - 9)$ d) None of these.

6. Factors of $p^4 - 81$ are: -

Ans. (c)

- a) $(p^2 - 9)(p^2 + 9)$ b) $(p + 3)^2(p - 3)^2$
c) $(p + 3)(p - 3)(p^2 + 9)$ d) None of these.

7. HCF of $6abc$, $24ab^2$, $12a^2b$ is: -

Ans. (a)

- a) $6ab$ b) $6ab^2$ c) $6a^2b$ d) $6abc$

8. Which is not a factor of $16y^2 + 32y$?

Ans. (b)

- a) 1 b) $6y$ c) $y + 2$ d) $16y$

9. What is the complete factorization of $32x^8 - 2y^8$?

Ans. (b)

- a) $2(4x^2 + y^2)(4x^2 - y^2)$ b) $2(2x^2 + y^2)(2x^2 - y^2)(4x^4 + y^4)$
c) $(4x^2 + y^2)(8x^2 - 2y^2)$ d) $(4x + 2y)(2x - y)(4x^2 + y^2)$

10. The binomial $x + 5$ is not a factor of which of the following trinomials? **Ans. (a)**

- a) $2x^2 - 3x - 35$ b) $2x^2 + 3x - 35$ c) $x^2 + 4x - 5$ d) $3x^2 + 14x - 5$