

MCQ'S Work Sheet-IV
CLASS VIII: CHAPTER - 14
FACTORISATION

Q1: Factors of $a^2 + bc + ab + ac$ is

- (a) $(a + b)(b + c)$ (b) $(a + b)(a + c)$ (c) $(a + c)(c + b)$ (d) none of these

Q2: Factors of $ax^2 + by^2 + bx^2 + ay^2$ is

- (a) $(a^2 + b^2)(x^2 + y^2)$ (b) $(a^2 + b^2)(x + y)$
(c) $(a + b)(x^2 + y^2)$ (d) none of these

Q3: Factors of $1 + a + ac + a^2c$ is

- (a) $(1 + a)(1 + ac)$ (b) $(1 + a)(a + c)$
(c) $(a + c)(1 + ac)$ (d) none of these

Q4: Factors of $xy - pq + qy - px$ is

- (a) $(p - y)(x + q)$ (b) $(y - p)(x + q)$
(c) $(y + p)(x + q)$ (d) none of these

Q5: Factors of $ab(x^2 + y^2) + xy(a^2 + b^2)$ is

- (a) $(ax + b)(bx + ay)$ (b) $(ax + by)(bx + ay)$
(c) $(a^2 + b^2)(x^2 + y^2)$ (d) none of these

Q6: Factors of $49x^2 - 16y^2$ is

- (a) $(7x - 4y)(7x + 4y)$ (b) $(7x - 4y)(7x - 4y)$
(c) $(7x + 4y)(7x + 4y)$ (d) none of these

Q7: Factors of $48a^2 - 243b^2$ is

- (a) $(4a - 9b)(4a + 9b)$ (b) $(4a - 9b)(4a - 9b)$
(c) $(4a + 9b)(4a + 9b)$ (d) none of these

Q8: Factors of $4x^2 - y^2 + 6y - 9$ is

- (a) $(2x + y - 3)(2x - y - 3)$ (b) $(2x + y - 3)(2x - y + 3)$
(c) $(2x + y + 3)(2x - y - 3)$ (d) none of these

Q9: Evaluate $(502)^2 - (498)^2$ using suitable identity.

- (a) 3000 (b) 4000 (c) 5000 (d) 6000

Q10: Evaluate $(8.6)^2 - (1.4)^2$ using suitable identity.

- (a) 72 (b) 100 (c) 144 (d) none of these

Q11: Factors of $x^2 + 10x + 25$ is

- (a) $(x + 5)(x + 2)$ (b) $(x + 5)(x + 5)$
(c) $(x + 20)(x + 5)$ (d) none of these

Q12: Factors of $x^2 + 8x + 15$ is

- (a) $(x + 3)(x + 5)$ (b) $(x + 15)(x + 1)$
(c) $(x + 10)(x + 5)$ (d) none of these

Q13: Factors of $x^2 - 7x + 12$ is

(a) $(x + 3)(x + 4)$

(c) $(x - 3)(x - 4)$

(b) $(x + 3)(x - 4)$

(d) none of these

Q14: Factors of $x^2 + x - 56$ is

(a) $(x + 8)(x + 7)$

(c) $(x - 8)(x + 7)$

(b) $(x + 8)(x - 7)$

(d) $(x - 8)(x - 7)$

Q15: Factors of $x^2 + 10x + 24$ is

(a) $(x + 4)(x + 6)$

(c) $(x + 8)(x + 3)$

(b) $(x + 12)(x + 2)$

(d) none of these