Factorisation Class 8 MCQs Questions

1. The common factor of x^2y^2 and x^3y^3 is

(a) x^2y^2

(b) x^3y^3

(c) x^2y^3

(d) x^3y^2.

2. The common factor of x^3y^2 and x^4y is

(a) $x^{43}y^2$

(b) x^4y

(c) x^3y^2

(d) x^3y.

3. The common factor of a^2 m^4 and a^4m^2 is

(a) a^4m^4

(b) a^2m^2

(c) a^2m^4

(d) a^4m^2

4.The common factor of p3q4 and p4q3 is

(a) p^4q^4

(b) p^4q^3

(c) p^3q^3

(d) p^3q^4

5.The common factor 12y and 30 is

(a) 6

(b) 12

(c) 30

(d) 6y.

6.The common factor of $2x$, $3x^3$, 4 is

(a) 1

(b) 2

(c) 3

(d) 4.

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7. The common factor of 10ab, 30bc, 50ca is

(a) 10

(b) 30

(c) 50

(d) abc.

8. The common factor of $14a^2b$ and $35a^4b^2$ is

(a) a^4b^2

(b) $35a^4b^2$

(c) $14a^2b$

(d) $7a^2b$.

9. The common factor of $8a^2b^4c^2$, $12a^4bc^4$ and $20a^3b^4$ is

(a) a^4b^4

(b) a^2b^2

(c) $4a^2b^2$

(d) $4a^2b$.

10. The common factor of $6a^3b^4c^2$, $21a^2b$ and $15a^3$ is

(a) $3a^2$

(b) $3a^3$

(c) $6a^3$

(d) $6a^2$

11.The common factor of $2a^2b^4c^2$, $8a^4b^3c^4$ and $6a^3b^4c^2$ is

(a) $2a^2b^3c^2$

(b) $6a^2b^3c^2$

(c) $8a^2b^3c^2$

(d) $a^4b^4c^4$.

12.The common factor of $3a^2b^4c^2$, $12b^2c^4$ and $15a^3b^4c^4$ is

(a) b^4c^4

(b) $3b^2c^2$

(c) $15b^2c^4$

(d) $12b^2c^4$

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13.The common factor of $24x^3y^4$, $36x^4z^4$ and $48x^3y^2z$ is

(a) $12x^3$

(b) $24x^3$

(c) $36x^3$

(d)$48x^3$

14. The common factor of $72x^3y^4z^4$, $120z^2d^4x^4$ and $96y^3z^4d^4$ is

(a) $96z^3$

(b) $120z^3$

(c) $72z^3$

(d) $24z^2$.

15. The common factor of $36p^2q^3x^4$, $48pq^3x^2$ and $54p^3q^3x^4$ is

(a) $6pq^3x^2$

(b) $36pq^3x^2$

(c) $54pq^3x^2$

(d) $48pq^3x^2$

16.The factorisation of $12a^2b + 15ab^2$ is

(a) $3ab\ (4a + 5b)$

(b) $3a^2b\ (4a + 5b)$

(c) $3ab^2\ (4a + 5b)$

(d) $3a^2b^2\ (4a + 5b)$.

17. The factorisation of $10x^2 - 18x^3 + 14x^4$ is

(a) $2x^2\ (7x^2 - 9x + 5)$

(b) $2x\ (7x^2 - 9x + 5)$

(c) $2\ (7x^2 - 9x + 5)$

(d) $2x^3\ (7x^2 - 9x + 5)$.

18. The factorisation of $6x - 42$ is

(a) $6(x - 7)$

(b) $3(x - 7)$

(c) $2(x - 7)$

(d) $6(x + 7)$

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19. The factorisation of $6x + 12y$ is

(a) $6(x + 2y)$

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

(c) $2(3x + 12y)$

(d) none of these.

20. The factorisation of $28a^3b^5 - 42a^5b^3$ is

(a) $14a^3b^3(2b^2 - 3a^2)$

(b) $14a^2b^3(2b^2 - 3a^2)$

(c) $14a^3b^2(2b^2 - 3a^2)$

(d) none of these.

21. The factorisation of $a^3 + a^2b + ab^2$ is

(a) $a(a^2 + ab + b^2)$

(b) $6(a^2 + ab + b^2)$

(c) $ab(a^2 + ab + b^2)$

(d) none of these.

22. The factorisation of $x^2yz + xy^2z + xyz^2$ is

(a) $xyz(x + y + z)$

(b) $x^2yz(x + y + z)$

(c) $xy^2z(x + y + z)$

(d) $xyz^2(x + y + z)$.

23. The factorisation of $ax^2y + bxy^2 + cxyz$ is

(a) $xy(ax + by + cz)$

(b) $axy(ax + by + cz)$

(c) $bxy(ax + by + cz)$

(d) $cxy(ax + by + cz)$.

24. The factorisation of

$a(x + y + z) + b(x + y + z) + c(x + y + z)$ is

(a) $(a + b + c)(x + y + z)$

(b) $(ab + bc + ca)(x + y + z)$

(c) $(xy + yz + zx)(a + b + c)$

(d) none of these.

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25. The factorisation of $6xy - 4y + 6 - 9x$ is

(a) $(3x - 2)(2y - 3)$

(b) $(3x + 2)(2y - 3)$

(c) $(3x - 2)(2y + 3)$

(d) $(3x + 2)(2y + 3)$.

26. The factorisation of $x^2 + xy + 2x + 2y$ is

(a) $(x + 2)(x + y)$

(b) $(x + 2)(x - y)$

(c) $(x - 2)(x + y)$

(d) $(x - 2)(x - y)$.

27. The factorisation of $ax + bx - ay - by$ is

(a) $(x - y)(a + b)$

(b) $(x + y)(a + b)$

(c) $(x - y)(a - b)$

(d) $(x + y)(a - b)$.

28. The factorisation of $ab - a - b + 1$ is

(a) $(a - 1)(b - 1)$

(b) $(a + 1)(b + 1)$

(c) $(a - 1)(b + 1)$

(d) $(a + 1)(b - 1)$.

29. The factorisation of

$x^2 + x + xy + y + zx + z$ is

(a) $(x + y + z)(x + 1)$

(b) $(x + y + z)(x + y)$

(c) $(x + y + z)(y + z)$

(d) $(x + y + z)(z + x)$.

30. The factorisation of $x^2y^2 + xy + xy^2z + yz + x^2yz + xz$ is

(a) $(xy + yz + zx)(xy + 1)$

(b) $(xy + yz + zx)(yz + 1)$

(c) $(xy + yz + zx)(zx + 1)$

(d) none of these.

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31. The factorisation of $x^2 + 8x + 16$ is

(a) $(x + 2)^2$

(b) $(x + 4)^2$

(c) $(x - 2)^2$

(d) $(x - A)^2$

32. The factorisation of $4y^2 - 12y + 9$ is

(a) $(2y + 3)^2$

(b) $(2y - 3)^2$

(c) $(3y + 2)^2$

(d) $(3y - 2)^2$

33. The factorisation of $49p^2 - 36$ is

(a) $(7p + 6)(7p - 6)$

(b) $(6p + 7)(6p - 7)$

(c) $(7p + 6)^2$

(d) $(7p - 6)^2$

34. The factorisation of $y^2 - 7y + 12$ is

(a) $(y + 3)(y + 4)$

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

(c) $(y - 3)(y + 4)$

(d) $(y - 3)(y - 4)$.

35. The factorisation of $z^2 - 4z - 12$ is

(a) $(z + 6)(z + 2)$

(b) $(z - 6)(z - 2)$

(c) $(z - 6)(z + 2)$

(d) $(z + 6)(z - 2)$.

36. The factorisation of $am^2 + bm^2 + bn^2 + an^2$ is

(a) $(a + b)(m^2 - n^2)$

(b) $(a + b)(m^2 + n^2)$

(c) $(a - b)(m^2 + n^2)$

(d) $(a - b)(m^2 - n^2)$.

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37. The factorisation of $(lm + l) + m + 1$ is

(a) $(l + 1)(m + 1)$

(6) $(l - 1)(m - 1)$

(c) $(l + 1)(m - 1)$

(d) $(l - 1)(m + 1)$.

38. The factorisation of $(l + m)^2 - 4lm$ is

(a) $(l - m)^2$

(b) $(l + m - 2)^2$

(c) $(l + m + 2)^2$

(d) none of these.

39. The factorisation of

$1 + p + q + r + pq + qr + pr + pqr$ is

(a) $(1 + p)(1 + q)(1 + r)$

(b) $(1 - p)(1 - q)(1 - r)$

(c) $(1 - p)(1 - q)(1 + r)$

(d) $(1 + p)(1 - q)(1 - r)$.

40. The value of

$0.645 \times 0.645 + 2 \times 0.645 \times 0.355 + 0.355 \times 0.355$ is

(a) 1

(b) 0

(c) -1

(d) 2.

41. The factorisation $1 + 16x + 64x^2$ is

(a) $(1 - 8x)^2$

(b) $(1 + 8x)^2$

(c) $(8 - x)^2$

(d) $(8 + x)^2$

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42. The factorisation $x^2 + x + 14$ is

(a) $(x2 - 1)^2$

(b) $(x2 + 1)^2$

(c) $(x + 12)^2$

(d) $(x - 12)^2$

43. The value of 99^2 is

(a) $(90)^2 + 2(90)(9) + (9)^2$

(b) $(90)^2 - 2(90)(9) + (9)^2$

(c) $(90)^2 + (9)^2$

(d) none of these.

44. The value of 49^2 is

(a) $(50)^2 - 2(50)(1) + (1)^2$

(b) $(50)^2 + 2\ (50)\ (1) + (1)^2$

(c) $(50)^2 - (1)^2$

(d) $(50)^2 + (1)^2$

45. The factorisation of (x2y2 -2+y2x2) $x \neq 0, y \neq 0$ is

(a) $(xy+yx)^2$

(b) $(xy-yx)^2$

(c) $(xy-1)^2$

(d) $(xy+1)^2$

46. The value of 0.73×0.73×−0.27×0.270.73−0.27 is

(a) 1

(b) 0

(c) 0.73

(d) 0.27.

47. The factorisation of $x^2 - 9$ is

(a) $(x - 3)^2$

(b) $(x + 3)^2$

(c) $(x + 3)(x - 3)$

(d) none of these.

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48. The factorisation of $36x^2y^2 - 1$ is

(a) $(6xy - 1)(6xy + 1)$

(b) $(6xy - 1)^2$

(c) $(6xy + 1)^2$

(d) $(6 + xy)^2$

49. The value of 0.564×0.564×−0.436×0.4360.564−0.436 is

(a) 0

(b) 1

(c) -1

(d) none of these.

50. The value of $(0.68)^2 - (0.32)^2$ is

(a) -1

(b) 0

(c) 1

(d) 0.36.

51. The factorisation of $3x^2 + 10x + 8$ is

(a) $(3x + 4)(x + 2)$

(b) $(3x - 4)(x - 2)$

(c) $(3x + 4)(x - 2)$

(d) $(3x - 4)(x + 2)$.

52. The factorisation of $3x^2 - 16x + 16$ is

(a) $(x - 4)(3x - 4)$

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

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

(d) $(x + 4)(3x - 4)$.

53. The factorisation of $6x^2 - 5x - 6$ is

(a) $(2x - 3)(3x + 2)$

(b) $(2x + 3)(3x + 2)$

(c) $(2x - 3)(3x - 2)$

(d) $(2x + 3)(3x - 2)$.

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