

EduSahara™ Learning Center Assignment**Grade : Class VIII, ICSE****Chapter : Factorization****Name : Factorisation Miscellaneous****Licensed To : Teachers and Students for non-commercial use**

1. Find the H.C.F. of $16x^3y^3$ and $56xy^3$

(i) $8xy^5$ (ii) $8x^2y^3$ (iii) $8xy^3$ (iv) $8x^4y^3$ (v) $112x^3y^3$

2. Find the H.C.F. of $190xyz^3$ and $70x^2y^3z^3$

(i) $10xyz^5$ (ii) $1330x^2y^3z^3$ (iii) $10xyz^3$ (iv) $10x^2yz^3$ (v) $10xy^3z^3$

3. Find the H.C.F. of $(x^2 - 3x + 2)$ and $(x^2 - 7x + 10)$

(i) $(2x - 1)$ (ii) $(2x - 2)$ (iii) $(x - 5)$ (iv) $(x - 2)$ (v) $(x - 1)$

4. Evaluate : $975^2 - 25^2$

(i) 950000 (ii) 950975 (iii) 950025 (iv) 9500000 (v) 95000

5. Which of the following gives the H.C.F of two or more polynomials?

- (i) (Product of numerical coefficients) $\times$ (Each common factor raised to the highest power)
(ii) (H.C.F. of numerical coefficients) $\times$ (Each common factor raised to the highest power)
(iii) (Product of numerical coefficients) $\times$ (Each common factor raised to the lowest power)
(iv) (H.C.F. of numerical coefficients) $\times$ (Each common factor raised to the lowest power)
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6. Find the value of $15^3 + 20^3 - 35^3$

(i) (-64000) (ii) 27000 (iii) 64000 (iv) (-27000) (v) (-31500)

7. Find the value of $3^3 + 1.2^3 - 4.2^3$

(i) -45.36 (ii) 216 (iii) -216 (iv) -13.824 (v) 13.824

8. Which of the following is a factor of $47x^5y^4z^5$?

- (i) $x^2y^5z^2$ (ii) $x^2y^3z^6$ (iii) $x^2y^3z^2$ (iv) $x^5y^3z^6$ (v) $x^6y^3z^2$
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9. Which of the following is not a factor of $28x^2y^2z$?

- (i) $14xy^2z$ (ii) $14x^2y^3z$ (iii) $14x^2yz$ (iv) $14x^2y^2$ (v) $14x$
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10. Which of the following is a factor of $(9x + y^2z^4)$?

- (i) $9xz^2$ (ii) $9y^2$ (iii) y^2z^4 (iv) $9x$ (v) no factors
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11. Which of the following is an irreducible factor of $44x^5yz^5$?

- (i) x (ii) x^3y (iii) y^2z (iv) xz^2 (v) $x^3y^2z^2$
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12. Which of the following is not an irreducible factor of $(x^2y + xy^2 + xy)$?

- (i) $(x + y + 1)$ (ii) x (iii) xy (iv) y
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Assignment Key

- 1) (iii)
- 2) (iii)
- 3) (iv)
- 4) (i)
- 5) (iv)
- 6) (v)
- 7) (i)
- 8) (iii)
- 9) (ii)
- 10) (v)
- 11) (i)
- 12) (iii)