

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

---

1. Which of the following are true?

- a) A binomial has two and only two terms
  - b)  $\pi r^2$  is a monomial
  - c) Every polynomial is a binomial
  - d) A binomial may have degree 3
  - e) Degree of zero polynomial is zero
- (i) {c,e,d} (ii) {e,b} (iii) {a,b,d} (iv) {c,a} (v) {c,a,b}
- 

2. Which of the following are polynomials?

a)  $x + \frac{1}{x}$

b)  $x^2 + \frac{1}{x^2}$

c)  $x^2$

d)  $\frac{(x+y)}{(x-y)}$

e)  $(x+y)$

- (i) {b,e,c} (ii) {d,a,c} (iii) {b,e} (iv) {c,e} (v) {a,c}
- 

3. Which of the following are not polynomials?

a)  $121x^2$

b)  $x + \frac{1}{x}$

c)  $(7x + 5y)$

$$d) \frac{(7x + 5y)}{(4x - 12y)}$$

$$e) (28x^2 - 64xy - 60y^2)$$

(i) {a,b} (ii) {e,a,b} (iii) {b,d} (iv) {c,d,b} (v) {c,d}

---

4. Which of the following are not polynomials?

a)  $\sqrt{x}$

b)  $x^2 + \frac{1}{x^2}$

c)  $(10x - 8y)$

d)  $x^2$

e)  $(x + 2y)$

(i) {d,b} (ii) {a,b} (iii) {e,c,a} (iv) {d,b,a} (v) {c,a}

---

5. Which of the following are not polynomials?

a)  $49x^2$

b)  $\frac{(9x + 4y)}{(x - y)}$

c)  $(9x^2 - 5xy - 4y^2)$

d)  $(x - y)$

e)  $\sqrt{x}$

(i) {b,e} (ii) {d,a,b} (iii) {c,e} (iv) {a,b} (v) {c,e,b}

---

6. Which of the following is a factor of  $20x^4y^3z^4$  ?

(i)  $5x^3y^4z^3$  (ii)  $5x^3yz^3$  (iii)  $5x^4yz^5$  (iv)  $5x^3yz^5$  (v)  $x^5yz^3$

---

7. Which of the following is not a factor of  $22x^3y^4z^3$  ?

- (i)  $2x^3y^4z^2$  (ii)  $2x^4y^5z^4$  (iii)  $2x^3y^3z$  (iv)  $2x^3y^3z^3$  (v)  $2x^2y^4z^3$
- 

8. Which of the following is a factor of  $(9x^5 + y^3z^5)$  ?

- (i)  $y^3z^5$  (ii)  $9y^2$  (iii)  $9x^5$  (iv) no factors (v)  $9x^5z$
- 

9. Which of the following is an irreducible factor of  $37x^2y^5z$  ?

- (i)  $z$  (ii)  $xz^2$  (iii)  $x^2y^5z^2$  (iv)  $y^5z$  (v)  $x^2y$
- 

10. Which of the following is not an irreducible factor of  $(x^2y + xy^2 + xy)$  ?

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

11.  $b^3 =$

- (i)  $b \times b \times b \times b$   
 (ii)  $3 \times b \times b \times b$   
 (iii)  $-2 \times b \times b \times b$   
 (iv)  $b \times b \times b$   
 (v)  $b \times b$
- 

12.  $g^4h^3 =$

- (i)  $g \times g \times g \times g \times h \times h \times h$   
 (ii)  $3 \times g \times g \times g \times g \times h \times h \times h$   
 (iii)  $g \times g \times g \times g \times g \times h \times h \times h$   
 (iv)  $-g \times g \times g \times g \times h \times h \times h$   
 (v)  $g \times g \times g \times h \times h \times h$
- 

13.  $5m^3n^3o^3 =$

---

14.  $8 \times a \times a =$

(i)  $5 a^2$

(ii)  $8 a^2$

(iii)  $8 a^3$

(iv)  $11 a^2$

(v)  $8a$

---

15.  $28 \times g \times g \times g \times h \times h \times h =$

(i)  $26 g^3 h^3$

(ii)  $30 g^3 h^3$

(iii)  $28 g^2 h^3$

(iv)  $28 g^4 h^3$

(v)  $28 g^3 h^3$

---

16.  $9 \times n \times n \times o \times o \times o \times p \times p =$

(i)  $11 n^2 o^3 p^2$

(ii)  $9 n o^3 p^2$

(iii)  $9 n^3 o^3 p^2$

(iv)  $9 n^2 o^3 p^2$

(v)  $7 n^2 o^3 p^2$

---

## Assignment Key

---

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