

EduSahara™ Learning Center Assignment**Grade : Class VI, ICSE****Chapter : Fundamental Concepts of Algebra****Name : Exponential and Product Form****Licensed To : Teachers and Students for non-commercial use**

1. The expanded form of $(a)^3$ is

(i) $a \times a$

(ii) $a \times a \times a \times a \times a$

(iii) a

(iv) $a \times a \times a$

(v) $a \times a \times a \times a$

2. The expanded form of $(\frac{1}{2}k)^3$ is

(i) $\frac{1}{2}k \times \frac{1}{2}k \times \frac{1}{2}k \times \frac{1}{2}k \times \frac{1}{2}k$

(ii) $\frac{1}{2}k \times \frac{1}{2}k \times \frac{1}{2}k$

(iii) $\frac{1}{2}k$

(iv) $\frac{1}{2}k \times \frac{1}{2}k \times \frac{1}{2}k \times \frac{1}{2}k$

(v) $\frac{1}{2}k \times \frac{1}{2}k$

3. The expanded form of $(-4gh)^3$ is

(i) $(-4gh)$

(ii) $(-4gh) \times (-4gh) \times (-4gh)$

(iii) $(-4gh) \times (-4gh) \times (-4gh) \times (-4gh)$

(iv) $(-4gh) \times (-4gh) \times (-4gh) \times (-4gh) \times (-4gh)$

(v) $(-4gh) \times (-4gh)$

4. The expanded form of $(\frac{4}{5}qr)^3$ is

(i) $\frac{4}{5}qr$

(ii) $\frac{4}{5}qr \times \frac{4}{5}qr \times \frac{4}{5}qr$

(iii) $\frac{4}{5}qr \times \frac{4}{5}qr \times \frac{4}{5}qr \times \frac{4}{5}qr$

(iv) $\frac{4}{5}qr \times \frac{4}{5}qr$

(v) $\frac{4}{5}qr \times \frac{4}{5}qr \times \frac{4}{5}qr \times \frac{4}{5}qr \times \frac{4}{5}qr$

5. $i^2 =$

(i) i

(ii) $i \times i \times i$

(iii) $4 \times i \times i$

(iv) $i \times i$

(v) $-i \times i$

6. $29g^4h^2 =$

(i) $32 \times g \times g \times g \times g \times h \times h$

(ii) $29 \times g \times g \times g \times g \times g \times h \times h$

(iii) $29 \times g \times g \times g \times h \times h$

(iv) $29 \times g \times g \times g \times g \times h \times h$

(v) $27 \times g \times g \times g \times g \times h \times h$

7. $g^4h^4i^4 =$

(i) $-2 \times g \times g \times g \times g \times h \times h \times h \times h \times i \times i \times i \times i$

(ii) $3 \times g \times g \times g \times g \times h \times h \times h \times h \times i \times i \times i \times i$

(iii) $g \times g \times g \times h \times h \times h \times h \times i \times i \times i \times i$

(iv) $g \times g \times g \times g \times g \times h \times h \times h \times h \times i \times i \times i \times i$

(v) $g \times g \times g \times g \times h \times h \times h \times h \times i \times i \times i \times i$

8. $i \times i \times i \times i =$

(i) i^5

(ii) i^4

(iii) $-i^4$

(iv) $4i^4$

(v) i^3

9. $14 \times e \times e \times e \times e \times f \times f \times f =$

(i) $17e^4f^3$

(ii) $14e^3f^3$

(iii) $14e^4f^3$

(iv) $11e^4f^3$

(v) $14e^5f^3$

10. $f \times f \times g \times g \times h \times h =$

(i) $3f^2g^2h^2$

(ii) $f^2g^2h^2$

(iii) fg^2h^2

(iv) $-f^2g^2h^2$

(v) $f^3g^2h^2$

Assignment Key

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