EduSahara™ Assignment

Name : Polynomial Power Expansion

Chapter : Polynomials and Factorisation

Grade : SSC Grade IX

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1. The expanded form of $(2r)^3$ is

(i) $2r\times 2r\times 2r\times 2r\times 2r$ (ii) $2r\times 2r\times 2r\times 2r$ (iii) $2r$ (iv) $2r\times 2r\times 2r$ (v) $2r\times 2r$

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

(i) $\frac{2}{3}c$ (ii) $\frac{2}{3}c\times\frac{2}{3}c\times\frac{2}{3}c\times\frac{2}{3}c\times\frac{2}{3}c$ (iii) $\frac{2}{3}c\times\frac{2}{3}c\times\frac{2}{3}c\times\frac{2}{3}c$ (iv) $\frac{2}{3}c\times\frac{2}{3}c\times\frac{2}{3}c$ (v) $\frac{2}{3}c\times\frac{2}{3}c$

3. The expanded form of $(5kl)^3$ is

(i) $5kl$ (ii) $5kl\times 5kl\times 5kl$ (iii) $5kl\times 5kl$ (iv) $5kl\times 5kl\times 5kl\times 5kl\times 5kl$ (v) $5kl\times 5kl\times 5kl\times 5kl$

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

(i) $\frac{3}{5}mn$ (ii) $\frac{3}{5}mn\times\frac{3}{5}mn$ (iii) $\frac{3}{5}mn\times\frac{3}{5}mn\times\frac{3}{5}mn$ (iv) $\frac{3}{5}mn\times\frac{3}{5}mn\times\frac{3}{5}mn\times\frac{3}{5}mn\times\frac{3}{5}mn$

(v) $\frac{3}{5}mn\times\frac{3}{5}mn\times\frac{3}{5}mn\times\frac{3}{5}mn$

5. The expanded form of $(4g-5)^3$ is

(i) $(4g-5)\times(4g-5)\times(4g-5)$ (ii) $(4g-5)\times(4g-5)\times(4g-5)\times(4g-5)\times(4g-5)$ (iii) $(4g-5)$

(iv) $(4g-5)\times(4g-5)$ (v) $(4g-5)\times(4g-5)\times(4g-5)\times(4g-5)$

6. The expanded form of $(\frac{4}{5}g+\frac{1}{2})^3$ is

(i) $(\frac{4}{5}g+\frac{1}{2})\times(\frac{4}{5}g+\frac{1}{2})\times(\frac{4}{5}g+\frac{1}{2})\times(\frac{4}{5}g+\frac{1}{2})\times(\frac{4}{5}g+\frac{1}{2})$ (ii) $(\frac{4}{5}g+\frac{1}{2})\times(\frac{4}{5}g+\frac{1}{2})$ (iii) $(\frac{4}{5}g+\frac{1}{2})\times(\frac{4}{5}g+\frac{1}{2})\times(\frac{4}{5}g+\frac{1}{2})$

(iv) $(\frac{4}{5}g+\frac{1}{2})$ (v) $(\frac{4}{5}g+\frac{1}{2})\times(\frac{4}{5}g+\frac{1}{2})\times(\frac{4}{5}g+\frac{1}{2})\times(\frac{4}{5}g+\frac{1}{2})$

7. The expanded form of $(3l)^3$ is

(i) $3l$ (ii) $3l\times 3l\times 3l$ (iii) $3l\times 3l$ (iv) $3l\times 3l\times 3l\times 3l$ (v) $3l\times 3l\times 3l\times 3l\times 3l$

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

(i) $\frac{1}{2}o$ (ii) $\frac{1}{2}o\times\frac{1}{2}o$ (iii) $\frac{1}{2}o\times\frac{1}{2}o\times\frac{1}{2}o$ (iv) $\frac{1}{2}o\times\frac{1}{2}o\times\frac{1}{2}o\times\frac{1}{2}o\times\frac{1}{2}o$ (v) $\frac{1}{2}o\times\frac{1}{2}o\times\frac{1}{2}o\times\frac{1}{2}o$

9. The expanded form of $(lm)^3$ is

(i) lm (ii) $lm \times lm \times lm \times lm \times lm$ (iii) $lm \times lm \times lm \times lm$ (iv) $lm \times lm$ (v) $lm \times lm \times lm$

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

(i) $\frac{2}{3}vw \times \frac{2}{3}vw \times \frac{2}{3}vw$ (ii) $\frac{2}{3}vw$ (iii) $\frac{2}{3}vw \times \frac{2}{3}vw$ (iv) $\frac{2}{3}vw \times \frac{2}{3}vw \times \frac{2}{3}vw \times \frac{2}{3}vw$

(v) $\frac{2}{3}vw \times \frac{2}{3}vw \times \frac{2}{3}vw \times \frac{2}{3}vw \times \frac{2}{3}vw$

11. The expanded form of $(5tu-5t)^3$ is

(i) $(5tu-5t) \times (5tu-5t)$ (ii) $(5tu-5t) \times (5tu-5t) \times (5tu-5t)$

(iii) $(5tu-5t) \times (5tu-5t) \times (5tu-5t) \times (5tu-5t) \times (5tu-5t)$ (iv) $(5tu-5t)$

(v) $(5tu-5t) \times (5tu-5t) \times (5tu-5t) \times (5tu-5t)$

12. The expanded form of $(\frac{3}{4}xy+\frac{2}{5}y)^3$ is

(i) $(\frac{3}{4}xy+\frac{2}{5}y) \times (\frac{3}{4}xy+\frac{2}{5}y) \times (\frac{3}{4}xy+\frac{2}{5}y)$ (ii) $(\frac{3}{4}xy+\frac{2}{5}y) \times (\frac{3}{4}xy+\frac{2}{5}y) \times (\frac{3}{4}xy+\frac{2}{5}y) \times (\frac{3}{4}xy+\frac{2}{5}y)$

(iii) $(\frac{3}{4}xy+\frac{2}{5}y) \times (\frac{3}{4}xy+\frac{2}{5}y)$ (iv) $(\frac{3}{4}xy+\frac{2}{5}y)$ (v) $(\frac{3}{4}xy+\frac{2}{5}y) \times (\frac{3}{4}xy+\frac{2}{5}y) \times (\frac{3}{4}xy+\frac{2}{5}y) \times (\frac{3}{4}xy+\frac{2}{5}y) \times (\frac{3}{4}xy+\frac{2}{5}y)$

Assignment Key

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

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