EduSahara™ Assignment

Name : Multiplication of Real Numbers

Chapter : Number Systems

Grade : CBSE Grade IX

1. $2\sqrt{10} \times 5\sqrt{8} =$

(i) $\sqrt[4]{8000}$ (ii) 8000 (iii) $\sqrt{8003}$ (iv) $\sqrt{8000}$ (v) $\sqrt{7997}$

2. $(-7\sqrt{5}) \times (-2\sqrt{9}) =$

(i) $42\sqrt{5}$ (ii) 210 (iii) $42\sqrt{8}$ (iv) $42\sqrt[4]{5}$ (v) $42\sqrt{3}$

3. $(-8\sqrt{5} - 8\sqrt{4}) \times (-3\sqrt{2} + 6\sqrt{4}) =$

(i) $(24\sqrt{10} + 48\sqrt{2} - 96\sqrt[4]{5} - 192)$ (ii) $(24\sqrt{7} + 48\sqrt{2} - 96\sqrt{5} - 192)$ (iii) $(24\sqrt{10} + 48\sqrt{2} - 96\sqrt{5} - 192)$

(iv) $(24\sqrt{10} + 48\sqrt[4]{2} - 96\sqrt{5} - 192)$ (v) $(24\sqrt{10} + 48\sqrt{2} - 96\sqrt{5} - 190)$

4. $\sqrt[12]{10} \times \sqrt[12]{6} =$

(i) $\sqrt[12]{57}$ (ii) $\sqrt[12]{62}$ (iii) $\sqrt[14]{60}$ (iv) $\sqrt[10]{60}$ (v) $\sqrt[12]{60}$

5. $\sqrt{4} \times 5\sqrt{9} =$

(i) $\sqrt{900}$ (ii) 900 (iii) $\sqrt{902}$ (iv) $\sqrt{898}$ (v) $\sqrt[4]{900}$

6. $4\sqrt{7} \times 3\sqrt{9} =$

(i) $36\sqrt{4}$ (ii) 252 (iii) $36\sqrt{9}$ (iv) $36\sqrt[4]{7}$ (v) $36\sqrt{7}$

7. $(-2\sqrt{7} - \sqrt{3}) \times (-5\sqrt{4} + 3\sqrt{5}) =$

(i) $(20\sqrt{7} + 10\sqrt{3} - 6\sqrt[4]{35} - 3\sqrt{15})$ (ii) $(20\sqrt{4} + 10\sqrt{3} - 6\sqrt{35} - 3\sqrt{15})$ (iii) $(20\sqrt{7} + 10\sqrt{3} - 6\sqrt{35} - 3\sqrt{15})$

(iv) $(20\sqrt{7} + 10\sqrt[4]{3} - 6\sqrt{35} - 3\sqrt{15})$ (v) $(20\sqrt{7} + 10\sqrt{3} - 6\sqrt{35} - 3\sqrt{17})$

8. $\sqrt[5]{9} \times \sqrt[5]{6} =$

(i) $\sqrt[5]{57}$ (ii) $\sqrt[5]{54}$ (iii) $\sqrt[5]{52}$ (iv) $\sqrt[3]{54}$ (v) $\sqrt[7]{54}$

Assignment Key

1) (iv)	2) (i)	3) (iii)	4) (v)	5) (i)	6) (v)
7) (iii)	8) (ii)				