EduSahara™ Assignment

Name : Multiplication of Real Numbers

Chapter : Number Systems

Grade : CBSE Grade IX

1. $4\sqrt{10} \times 2\sqrt{9} =$

   (i) $\sqrt{5760}$ (ii) $\sqrt[4]{5760}$ (iii) $\sqrt{5762}$ (iv) $\sqrt{5758}$ (v) 5760

2. $9\sqrt{6} \times (-5\sqrt{2}) =$

   (i) (-540) (ii) $(-45\sqrt{10})$ (iii) $(-45\sqrt{12})$ (iv) $(-45\sqrt{14})$ (v) $(-45\sqrt[4]{12})$

3. $(-4\sqrt{6}-7\sqrt{5}) \times (\sqrt{2}+8\sqrt{9}) =$

   (i) $(-4\sqrt{12}-7\sqrt{10}-96\sqrt{6}-168\sqrt{5})$ (ii) $(-4\sqrt{10}-7\sqrt{10}-96\sqrt{6}-168\sqrt{5})$

   (iii) $(-4\sqrt{12}-7\sqrt[4]{10}-96\sqrt{6}-168\sqrt{5})$ (iv) $(-4\sqrt{12}-7\sqrt{10}-96\sqrt{6}-168\sqrt{8})$

   (v) $(-4\sqrt{12}-7\sqrt{10}-96\sqrt[4]{6}-168\sqrt{5})$

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

   (i) $\sqrt{21}$ (ii) $\sqrt{18}$ (iii) 18 (iv) $\sqrt{16}$ (v) $\sqrt[4]{18}$

5. $5\sqrt{10} \times 4\sqrt{2} =$

   (i) 8000 (ii) $\sqrt[4]{8000}$ (iii) $\sqrt{8002}$ (iv) $\sqrt{7998}$ (v) $\sqrt{8000}$

6. $5\sqrt{9} \times 6\sqrt{7} =$

   (i) $90\sqrt{9}$ (ii) 630 (iii) $90\sqrt[4]{7}$ (iv) $90\sqrt{4}$ (v) $90\sqrt{7}$

7. $(-8\sqrt{8}+3\sqrt{4}) \times (4\sqrt{3}-\sqrt{4}) =$

   (i) $(-64\sqrt{6}+24\sqrt{3}+32\sqrt{2}-9)$ (ii) $(-64\sqrt{3}+24\sqrt{3}+32\sqrt{2}-12)$ (iii) $(-64\sqrt{6}+24\sqrt[4]{3}+32\sqrt{2}-12)$

   (iv) $(-64\sqrt{6}+24\sqrt{3}+32\sqrt[4]{2}-12)$ (v) $(-64\sqrt{6}+24\sqrt{3}+32\sqrt{2}-12)$

8. $\sqrt[11]{2} \times \sqrt[11]{3} =$

(i) $\sqrt[13]{6}$ (ii) $\sqrt[11]{8}$ (iii) $\sqrt[11]{6}$ (iv) $\sqrt[9]{6}$ (v) $\sqrt[11]{4}$

Assignment Key

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