

**MCQ WORKSHEET-III**  
**CLASS IX : CHAPTER - 1**  
**NUMBER SYSTEM**

1. On rationalizing the denominator of  $\frac{1}{\sqrt{7}-\sqrt{6}}$ , we get  
 (a)  $\frac{\sqrt{7}+\sqrt{6}}{\sqrt{7}-\sqrt{6}}$  (b)  $\frac{\sqrt{7}-\sqrt{6}}{\sqrt{7}+\sqrt{6}}$  (c)  $\sqrt{7}+\sqrt{6}$  (d)  $\sqrt{7}-\sqrt{6}$
2. On rationalizing the denominator of  $\frac{1}{\sqrt{5}+\sqrt{2}}$ , we get  
 (a)  $\sqrt{5}-\sqrt{2}$  (b)  $\sqrt{2}-\sqrt{5}$  (c)  $\frac{\sqrt{5}-\sqrt{2}}{3}$  (d)  $\frac{\sqrt{2}-\sqrt{5}}{3}$
3. On rationalizing the denominator of  $\frac{1}{\sqrt{7}-2}$ , we get  
 (a)  $\sqrt{7}-2$  (b)  $\sqrt{7}+2$  (c)  $\frac{\sqrt{7}+2}{3}$  (d)  $\frac{\sqrt{7}-2}{3}$
4. On rationalizing the denominator of  $\frac{1}{\sqrt{2}}$ , we get  
 (a) 2 (b)  $\sqrt{2}$  (c)  $\frac{2}{\sqrt{2}}$  (d)  $\frac{\sqrt{2}}{2}$
5. On rationalizing the denominator of  $\frac{1}{2+\sqrt{3}}$ , we get  
 (a)  $2-\sqrt{3}$  (b)  $\sqrt{3}-2$  (c)  $2+\sqrt{3}$  (d)  $-\sqrt{3}-2$
6. On rationalizing the denominator of  $\frac{1}{\sqrt{3}-\sqrt{2}}$ , we get  
 (a)  $\frac{1}{\sqrt{3}+\sqrt{2}}$  (b)  $\sqrt{3}+\sqrt{2}$  (c)  $\sqrt{2}-\sqrt{3}$  (d)  $-\sqrt{3}-\sqrt{2}$
7. The value of  $64^{\frac{1}{2}}$  is:  
 (a) 8 (b) 4 (c) 16 (d) 32
8. The value of  $32^{\frac{1}{5}}$  is:  
 (a) 16 (b) 160 (c) 2 (d) 18
9. The value of  $(125)^{\frac{1}{3}}$  is:  
 (a) 5 (b) 25 (c) 45 (d) 35
10. The value of  $9^{\frac{3}{2}}$  is:  
 (a) 18 (b) 27 (c) -18 (d)  $\frac{1}{27}$