

NCERT Solutions by Dev Anoop (Bathinda)

Ex. 6.3, Class VIII

$$\begin{aligned} \text{iv)} \quad & \sqrt{7744} \\ &= \sqrt{2^2 \times 2^2 \times 2^2 \times 11^2} \\ &= 2 \times 2 \times 2 \times 11 \\ &= 88 \end{aligned}$$

$$\begin{array}{r} 11 \overline{) 7744} \\ \underline{77} \\ 00 \\ 11 \overline{) 704} \\ \underline{70} \\ 04 \\ 2 \overline{) 64} \\ \underline{64} \\ 00 \\ 2 \overline{) 32} \\ \underline{32} \\ 00 \\ 2 \overline{) 16} \\ \underline{16} \\ 00 \\ 2 \overline{) 8} \\ \underline{8} \\ 00 \\ 2 \overline{) 4} \\ \underline{4} \\ 00 \\ 2 \end{array}$$

$$\begin{aligned} \text{vi)} \quad & \sqrt{9604} \\ &= \sqrt{2^2 \times 7^2 \times 7^2} \\ &= 2 \times 7 \times 7 \\ &= 98 \end{aligned}$$

$$\begin{array}{r} 7 \overline{) 9604} \\ \underline{7} \\ 26 \\ 7 \overline{) 1372} \\ \underline{13} \\ 72 \\ 7 \overline{) 196} \\ \underline{19} \\ 6 \\ 7 \overline{) 28} \\ \underline{28} \\ 00 \\ 2 \overline{) 4} \\ \underline{4} \\ 00 \\ 2 \end{array}$$

$$\begin{aligned} \text{vii)} \quad & \sqrt{5929} \\ &= \sqrt{7^2 \times 11^2} \\ &= 7 \times 11 \\ &= 77 \end{aligned}$$

$$\begin{array}{r} 11 \overline{) 5929} \\ \underline{11} \\ 48 \\ 11 \overline{) 539} \\ \underline{53} \\ 9 \\ 7 \overline{) 49} \\ \underline{49} \\ 00 \\ 7 \end{array}$$

viii)

$$\begin{array}{r} 3 \overline{) 9216} \\ \underline{9} \\ 02 \\ 3 \overline{) 3072} \\ \underline{30} \\ 72 \\ 2 \overline{) 1024} \\ \underline{10} \\ 24 \\ 2 \overline{) 512} \\ \underline{51} \\ 2 \\ 2 \overline{) 256} \\ \underline{25} \\ 6 \\ 2 \overline{) 128} \\ \underline{12} \\ 8 \\ 2 \overline{) 64} \\ \underline{64} \\ 00 \\ 2 \overline{) 32} \\ \underline{32} \\ 00 \end{array}$$

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