

$$1d) \quad \sqrt{2} \times \sqrt{8} = \sqrt{16} = 4$$

$$1h) \quad \sqrt{7} \times \sqrt{3} = \sqrt{21}$$

$$1e) \quad \sqrt{5} \times \sqrt{6} = \sqrt{30}$$

$$2d) \quad \sqrt{24} \div \sqrt{8} = \sqrt{3}$$

$$2h) \quad \sqrt{21} \div \sqrt{3} = \sqrt{7}$$

$$2e) \quad \sqrt{54} \div \sqrt{6} = \sqrt{9} = 3$$

$$3d) \quad \sqrt{2} \times \sqrt{8} \times \sqrt{3} = \sqrt{16} \times \sqrt{3} = 4\sqrt{3}$$

$$3h) \quad \sqrt{7} \times \sqrt{3} \times \sqrt{3} = 3\sqrt{7}$$

$$3e) \quad \sqrt{5} \times \sqrt{6} \times \sqrt{30} = \sqrt{30} \times \sqrt{30} = 30$$

$$4d) \quad \frac{\sqrt{2} \times \sqrt{8}}{\sqrt{8}} = \sqrt{2}$$

$$4h) \quad \frac{\sqrt{7} \times \sqrt{3}}{\sqrt{3}} = \sqrt{7}$$

$$4e) \quad \frac{\sqrt{5} \times \sqrt{6}}{\sqrt{30}} = \frac{\sqrt{30}}{\sqrt{30}} = 1$$

$$5c) \quad \frac{\sqrt{a} \times \sqrt{a}}{\sqrt{a}} = \sqrt{a}$$

$$6d) \quad \sqrt{50} = \sqrt{25 \times 2} = 5\sqrt{2}$$

$$6h) \quad \sqrt{75} = \sqrt{25 \times 3} = 5\sqrt{3}$$

$$6e) \quad \sqrt{200} = \sqrt{100 \times 2} = 10\sqrt{2}$$

$$6p) \quad \sqrt{243} = \sqrt{81 \times 3} = 9\sqrt{3}$$

$$4a) \quad \sqrt{2} \times \sqrt{3} \div \sqrt{2} = \sqrt{3}$$

$$4e) \quad \sqrt{5} \times \sqrt{8} \div \sqrt{8} = \sqrt{5}$$

$$4i) \quad \sqrt{2} \times \sqrt{7} \div \sqrt{2} = \sqrt{7}$$

$$5a) \quad \sqrt{a} \times \sqrt{a} = a$$

$$5b) \quad \sqrt{a} \div \sqrt{a} = 1$$

$$6a) \quad \sqrt{18} = \sqrt{9 \times 2} = 3\sqrt{2}$$

$$6b) \quad \sqrt{24} = \sqrt{4 \times 6} = 2\sqrt{6}$$

$$6c) \quad \sqrt{12} = \sqrt{4 \times 3} = 2\sqrt{3}$$

$$6e) \quad \sqrt{8} = \sqrt{4 \times 2} = 2\sqrt{2}$$

$$6f) \quad \sqrt{27} = \sqrt{9 \times 3} = 3\sqrt{3}$$

$$6g) \quad \sqrt{48} = \sqrt{16 \times 3} = 4\sqrt{3}$$

$$6i) \quad \sqrt{45} = \sqrt{9 \times 5} = 3\sqrt{5}$$

$$6j) \quad \sqrt{63} = \sqrt{9 \times 7} = 3\sqrt{7}$$

$$6k) \quad \sqrt{32} = \sqrt{16 \times 2} = 4\sqrt{2}$$

$$6m) \quad \sqrt{1000} = \sqrt{100 \times 10} = 10\sqrt{10}$$

$$6n) \quad \sqrt{250} = \sqrt{25 \times 10} = 5\sqrt{10}$$

$$6o) \quad \sqrt{98} = \sqrt{49 \times 2} = 7\sqrt{2}$$

$$7d) \quad 2\sqrt{8} \times 2\sqrt{8} = 4 \times 8 = 32$$

$$\begin{aligned} 7h) \quad 2\sqrt{63} \times 2\sqrt{7} &= 2\sqrt{9 \times 7} \times 2\sqrt{7} \\ &= 6\sqrt{7} \times 2\sqrt{7} \\ &= 12 \times 7 = 84 \end{aligned}$$

$$\begin{aligned} 7e) \quad 2\sqrt{98} \times 2\sqrt{2} &= 2\sqrt{49 \times 2} \times 2\sqrt{2} \\ &= 14\sqrt{2} \times 2\sqrt{2} \\ &= 28 \times 2 = 56 \end{aligned}$$

$$\begin{aligned} 7a) \quad 2\sqrt{18} \times 3\sqrt{2} \\ &= 2\sqrt{9 \times 2} \times 3\sqrt{2} \\ &= 6\sqrt{2} \times 3\sqrt{2} = 18 \times 2 = 36 \end{aligned}$$

$$\begin{aligned} 7e) \quad 2\sqrt{27} \times 4\sqrt{8} \\ &= 2\sqrt{9 \times 3} \times 4\sqrt{4 \times 2} \\ &= 6\sqrt{3} \times 8\sqrt{2} = 48\sqrt{6} \end{aligned}$$

$$\begin{aligned} 7i) \quad 2\sqrt{32} \times 4\sqrt{2} \\ &= 2\sqrt{16 \times 2} \times 4\sqrt{2} \\ &= 8\sqrt{2} \times 4\sqrt{2} = 32 \times 2 = 64 \end{aligned}$$

$$\begin{aligned} 7b) \quad 4\sqrt{24} \times 2\sqrt{5} \\ &= 4\sqrt{4 \times 6} \times 2\sqrt{5} \\ &= 8\sqrt{6} \times 2\sqrt{5} = 16\sqrt{30} \end{aligned}$$

$$\begin{aligned} 7f) \quad 2\sqrt{48} \times 3\sqrt{8} \\ &= 2\sqrt{16 \times 3} \times 3\sqrt{4 \times 2} = 8\sqrt{3} \times 6\sqrt{2} = 48\sqrt{6} \end{aligned}$$

$$\begin{aligned} 7c) \quad & 3\sqrt{12} \times 3\sqrt{3} \\ & = 3\sqrt{4 \times 3} \times 3\sqrt{3} \\ & = 6\sqrt{3} \times 3\sqrt{3} = 18 \times 3 = 54 \end{aligned}$$

$$\begin{aligned} 7g) \quad & 2\sqrt{45} \times 3\sqrt{3} \\ & 2\sqrt{9 \times 5} \times 3\sqrt{3} \\ & 6\sqrt{5} \times 3\sqrt{3} = 18\sqrt{15} \end{aligned}$$

$$\begin{aligned} 7k) \quad & \sqrt{250} \times \sqrt{10} \\ & = \sqrt{25 \times 10} \times \sqrt{10} = 5\sqrt{10} \times \sqrt{10} = 5 \times 10 = 50 \end{aligned}$$
