

$$5 \text{ (iii)} \quad 1008 = 2^2 \times 2^2 \times 3^2 \times \textcircled{7}$$

Smallest no. by which given no. should be multiplied to get a

square no. = 7 (to get a pair of 7)

$$\begin{aligned} \text{required square no.} &= 1008 \times 7 \\ &= 7056 \end{aligned}$$

$$\sqrt{7056}$$

$$= \sqrt{2^2 \times 2^2 \times 3^2 \times 7^2}$$

$$= 2 \times 2 \times 3 \times 7$$

$$= 84$$

$$5 \text{ (iv)} \quad 2028 = 2^2 \times \textcircled{3} \times 13^2$$

Smallest no. by which given no. should be multiplied to

get a square no. = 3 (to get pair of 3)

$$\begin{aligned} \text{required square no.} &= 2028 \times 3 \\ &= 6084 \end{aligned}$$

$$\sqrt{6084} = \sqrt{2^2 \times 3^2 \times 13^2}$$

$$= 2 \times 3 \times 13$$

$$= 78$$