

5 (iv) least no. to be added to 6412 to get perfect square = 149

Required perfect square =  $6412 + 149$   
 = 6561

$$\sqrt{6561} = 81$$

or

least no. to be added to 6412 to get a perfect square

$$\begin{aligned} &= (80+1)^2 - 6412 \\ &= 81^2 - 6412 \\ &= 6561 - 6412 \\ &= 149 \end{aligned}$$

Required perfect square = 6561

$$\sqrt{6561} = 81$$

	81
8	64 12
	64
161	12
	161
	-149

	81
8	65 61
	64
161	161
	161
	0

	80
8	64 12
	64
160	12
	0
	12