

Question:**Numbers**

The difference between two numbers is 3 and the difference between their squares is 63. Which is the larger number?

- 1 12
- 2 9
- 3 15
- 4 Cannot be determined

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Explanation:

Let the larger and smaller numbers be x and y respectively.

$$\text{Then, } x - y = 3 \dots(i)$$

$$\text{and, } x^2 - y^2 = 63$$

$$\Rightarrow (x + y)(x - y) = 63$$

$$\Rightarrow (x + y) = 63 / 3 = 21 \dots(ii)$$

From equation (i) and (ii),

$$x = 12$$

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