

Two numbers are in the ratio 9:16. If the smaller number is 180, what is the sum of the two numbers?

Question:

- A. 320
- B. 230
- C. 400
- D. 500

Answer:

Ratio $9:16$ \rightarrow 16 parts of same No.
 \swarrow
9 parts of some No.

9 parts of some No = 180

1 part = ?

\therefore we cross multiply.

$$? \times 9 = 180 \times 1$$

$$? = \frac{180}{9} = 20$$

\therefore 1 part of common No. between two No's. is 20

9 parts + 16 parts = 25 parts this common No.

$$= 25 \times 20$$

$$= 500$$

\therefore Ans: Option (D)