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## The sum of the squares of threeis:numbers is 138, while the sum oftheir products taken two at a time is131. Their sum is:

## A. 20

B. 30

C. 40

D. None of these

## Option <u>A. 20</u> is the right answer



Aptitude Questions by CSS MCQs Let suppose The sum of the squares of three numbers is 138 i.e  $a^2 + b^2 + c^2 = 138$ And, the sum of their products taken two at a time is 131 i.e (ab + bc + ca) = 131Now, as we know that  $(a + b + c)^2 = \underline{a^2 + b^2 + c^2} + 2(\underline{ab + bc + ca})$ By putting the values, we get  $(a + b + c)^2 = \underline{138} + 2 \times \underline{131}$ 



The sum of the squares of three numbers is 138, while the sum of their products taken two at a time is 131. Their sum  $(a + b + c)^2 = 400$ is: By taking under root on both sides, we get  $\sqrt{(a + b + c)^2} = \sqrt{400}$ 

## (a + b + c) = 20

Hence, if the sum of the squares of three numbers is 138, while the sum of their products taken two at a time is 131. Thenm their sum is 20 as proved above.

which is our right answer:)

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