

Number patterns:

Can you find the relationship between the following triples?

3,4,5

6,8,10

5, 12,13

8, 15,17

(the relationship is the same for all four sets)

First of all, note some things that are not true:

a). the first two numbers do not total to the third: $3 + 4 > 5$

$6 + 8 > 10$ ETC.

b). 6, 8 and 10 are twice 3, 4, 5 but the others are not

c). the numbers are not in counting order: 3,4,5 are but the others are not

(hint: It helps if you have knowledge of right triangles)