

Name:

In this quiz a , b , and c denote non-zero integers.

1] Complete the following definition: We say that a and b are *coprime* if

2] Which of following statements is correct? Write the corresponding letter(s) in the box!

A] If $a \mid bc$ then $a \mid b$ or $a \mid c$.

B] If $a \mid bc$ then $a \mid b$ and $a \mid c$.

C] If $a \mid bc$ and $(a, b) = 1$ then $a \mid c$.

D] If $a \mid bc$ and $a \nmid b$ then $a \mid c$.

3] Prove that if $a \mid b$ and $b \mid c$ then $a \mid c$.