Answer on Question #55492 – Math – Algebra

Question

The difference between two positive integers is 40. One integer is three times as great as the other. Find the integers.

Solution

Let n be one of the two positive integers.

By the statement of the question, the second positive integer is 3n.

Then rewrite sentence "The difference between two positive integers is 40" in the following way:

3n - n = 40

Collect similar terms:

2n = 40

Divide both sides by 2:

n = 20.

Thus, one of integers is 3n = 3×20 = 60 and the other is n=20.

Answer: 60 and 20.