

**Answer on Question #48699 – Math – Algebra**

Suppose consumers will purchase  $q$  units of a product at a price of  $70/q+5$  dollars per unit. What is the number of units that must be sold in order to obtain revenue of at least \$90?

**Solution**

$p = 70/q+5$ ,  $TR = p*q = \$90$ , so we get the following formulae:

$$p = 70/q + 5$$

$$p*q \geq 90$$

$$(70/q + 5)q \geq 90$$

$$70+5q \geq 90$$

$$5q \geq 20$$

$$q \geq 4$$

So, 4 units must be sold in order to obtain revenue of at least \$90.

**Answer:** 4 units.