Answer on Question #54117 – Math – Algebra

Question

Cole is packing a crate with the boxes of vegetables that weigh 3 pounds each. The empty crate weighs 2 pounds. He wants the total weight of the crate with the boxes to be less than 26 pounds. If x represents the number of boxes that Cole can pack in the crate, Which inequality can be used to find the value of x

Solution

To find the value of x, the following inequality can be used $(W_b + W_v) \cdot x < W_t$

Plug in the following weights:

 $W_b = 2$ pounds, $W_v = 3$ pounds, $W_t = 26$ pounds. Obtain the inequality

Simplify

5*x* < 26

 $(3+2) \cdot x < 26$

Divide both sides by 5 x < 5.2