

Answer on Question #54255 - Math - Algebra

12 boxes of fertilizer solution weighs 8 kilograms. If a truck can carry 750 kilograms, how many boxes of fertilizer can it transport?

Solution

If 12 boxes of fertilizer solution weighs 8 kilograms, then one box of fertilizer solution weighs

$$\frac{8}{12} = \frac{2}{3} \text{ (kilograms).}$$

Thus, one box of fertilizer solution weighs $\frac{2}{3}$ kilograms. Finally a truck can carry

$$750 : \frac{2}{3} = 750 \cdot \frac{3}{2} = 1125 \text{ (boxes).}$$

Answer: 1125 boxes of fertilizer.