

Question21167

vinnie bought 50 kg tomatoes.5 kg were found rotten and she threw them away.she sold the remaining and charged for 4 kg as much as she paid for 5 kg.find her gain or loss percent.

Solution.

Assume that Vinnie payed x for 5 kg, then she spent

$$\frac{50}{10}x = 10x.$$

After she threw away some tomatoes it remained $50 - 5 = 45$ kg. Solving them she got

$$\frac{45}{4}x = 11,25x. \text{ Thus, she gained}$$

$$\frac{11,25x}{10x} 100\% = 12,5\%.$$

Answer. Vinnie gained 12,5%.