

Answer on Question #54026 – Math – Algebra

An assembly line boxes nuts and bolts. One box can hold $5\frac{1}{2}$ lbs. of nuts and 3 lbs. 6 oz. of bolts. What is the total weight for one box?

Solution

1 pound = 16 ounce, so $6\text{ oz} = \frac{6}{16}\text{ lbs} = \frac{3}{8}\text{ lbs}$.

Total weight $W = 5\frac{1}{2} + 3\frac{3}{8} = \frac{11}{2} + \frac{27}{8} = \frac{44}{8} + \frac{27}{8} = \frac{71}{8} = 8\frac{7}{8}\text{ lbs}$.