Answer on Question #61709 – Math – Algebra

Question

When Rosa opens the kitchen cabinet, she finds three partially filled bags of flour. One contains 2/3 cup, another contains 1 1/4 cups, and the third contains 1 1/2 cups. How much flour does she have all together?

Solution

She has

$$\frac{2}{3} + 1\ \frac{1}{4} + 1\ \frac{1}{2} = \frac{2}{3} + \frac{5}{4} + \frac{3}{2} =$$

$$= |the\ least\ common\ multiple\ of\ denominators\ 3, 4, 2\ is\ 12| =$$

$$= \frac{2 \cdot 4}{3 \cdot 4} + \frac{5 \cdot 3}{4 \cdot 3} + \frac{3 \cdot 6}{2 \cdot 6} = \frac{8}{12} + \frac{15}{12} + \frac{18}{12} = \frac{8 + 15 + 18}{12} = \frac{41}{12} = \frac{36 + 5}{12} =$$

$$= \frac{36}{12} + \frac{5}{12} = 3 + \frac{5}{12} = 3\ \frac{5}{12}\ \text{cups.}$$

Answer: $3\ \frac{5}{12}$ cups.