Answer on Question #54115 – Math – Algebra

Max bought 2 3/4 pounds green apples, 1 5/8 pounds yellow apples, and 1 5/8 pounds red apples. The total cost was $5.40. What is the cost for one pound of apples if all apples cost the same amount per pound?

Solution

Total amount of apples which Max bought is

$$2\frac{3}{4}+1\frac{5}{8}+1\frac{5}{8}=\frac{2\cdot4+3}{4}+\frac{1\cdot8+5}{8}+\frac{1\cdot8+5}{8}=\frac{11}{4}+\frac{13}{8}+\frac{13}{8}=\frac{11\cdot2+13+13}{8}=\frac{22+13+13}{8}=\frac{48}{8}=6 \text{ pounds}$$

If all apples cost the same amount per pound, then cost per pound is $\frac{\$5.40}{6}=\$\mathbf{0.9}$.

Answer: $\$\mathbf{0.9}$.

If you typed $\frac{23}{4}+\frac{15}{8}+\frac{15}{8}=\frac{2\cdot23+15+15}{4}=\frac{46+15+15}{4}=\frac{76}{4}=19$ pounds, then cost per pound is

$\frac{\$5.40}{19}\approx\$0.28$.