

# Weight & Cost in the Imperial System

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9:50 AM

- using comparisons of weight to calculate unit price

\* 1st change all units to the SAME unit.

ex. #1

A 12 oz can of vegetables costs \$1.49

A 1 lb 2 oz can costs \$2.19

Which is the better buy?

CAN 1

$$\frac{\$1.49}{12\text{oz}} = \$0.1242 \text{ per oz}$$

CAN 2

1 lb 2 oz

$$\rightarrow 16\text{oz} + 2\text{oz} = 18\text{oz}$$

$$= \frac{\$2.19}{18\text{oz}} = \$0.1217 \text{ per oz.}$$

lower price!

Ex. #2

Victor bought steaks for dinner that weighed 4 lb 6 oz. It costs \$2.74 per lb. He trimmed the fat and had only 4 lb of meat remaining. What is the true cost per pound?

$$\frac{\text{lb}}{\text{oz}} \Rightarrow \frac{1 \text{ lb}}{16 \text{ oz}} = \frac{X}{6}$$

$$\text{TOTAL: } 4 \text{ lb} + 0.375 \text{ lb MASS}$$

$$\frac{0.7}{1602} \Rightarrow \frac{0.7}{1602} \times \frac{16}{16}$$

$$\frac{6}{16} = \frac{16x}{16}$$

$$0.375 = x$$

MASS

$$= 4.375 \text{ lb}$$

$$\times \$2.74$$

$$\underline{\$11.99 \div 4 \text{ lb}}$$

$$= \boxed{\$3.00/\text{lb}}$$