

- d. The baker pays \$0.50 per pound for sugar and \$0.75 per pound for butter. Write an expression that shows how much the baker will spend if he buys 6 pounds of butter and 20 pounds of sugar.

$$\begin{array}{r}
 20 \\
 \times 50 \text{ (}\times 10\text{)} \\
 \hline
 00 \\
 1000 \\
 \hline
 1,000 (\div 10) = 100.0
 \end{array}
 \quad
 (20 \times \$0.50) + (6 \times \$0.75) =$$

$$\$100 + \$45 = \$145.00$$

$$\begin{array}{r}
 75 \text{ (}\times 10\text{)} \\
 \times 6 \\
 \hline
 450 (\div 10) = 45
 \end{array}$$

- e. Chocolate sprinkles cost as much per pound as sugar. Find $\frac{1}{100}$ the baker's total cost for 100 pounds of chocolate sprinkles. Explain the number of zeros and the placement of the decimal in your answer using a place value chart.

$$\$0.50 \div 100 = \$0.0050$$

5	0	$\div 100$	
0	0	$\div 100$	50

0	0	$\times 100$	50
5	0	$\times 100$	

The baker pays
\$50.00 for 100 lbs
of sprinkles.