8.9 Fractions with Money

Sydney buys a concert ticket from her friend for $\frac{3}{4}$ of the original cost shown on the ticket.

If the ticket costs $\$ 37.50$, how much does Sydney pay?
To determine how much Sydney pays, find $\frac{3}{4}$ of $\$ 37.50$.
**Remember that "of" means multiply!!**

$$
\begin{aligned}
& \frac{3}{4} \times \$ 37.50=\frac{3}{4} \cdot \frac{37.50}{1}=\frac{3.37 .50}{4.1} \\
& 31.50 \\
& \frac{x}{112.50}=\frac{112.50}{4}=112.50 \div 4=28.125 \\
& \frac{38.125}{1125}=028.13
\end{aligned}
$$

Example: Multiply or divide Round to the nearest cent when necessary. 1) $\frac{1}{2}$ of $338=\frac{1}{\frac{1}{8} \cdot \frac{38}{1}}=\frac{1 \cdot 99}{1-1}=\frac{19}{1}=819$
2) $\frac{1}{3}$ of $9906 \frac{1}{3} \frac{9.06}{1}=\frac{9.06}{3}=\$ 3.02$

$$
\begin{array}{r}
3.02 \\
3 \longdiv { 9 . 0 6 6 } \\
-9.06 \\
0.06 \\
\frac{06}{6}
\end{array}
$$

Example: Multiply or divide. Round to the nearest cent when necessary.

3.) $\frac{2}{3}$ of $\$ 17.50$
$\frac{x, 2}{35.00}$
4.) $\frac{5}{8}$ of $\$ 18.50$

$$
\frac{5}{8} \cdot \frac{18.50}{1}
$$

$$
\frac{92.50}{8}
$$



Example: Multiply or divide. Round to the nearest centiwhen necessary.


