

Multiplying and Dividing with Decimals

Nelly has \$6.00. Notebooks cost \$1.50 each and she wants to buy 4 of them. Does she have enough money to buy them?

Multiply 4 by \$1.50 to find out how much 4 notebooks will cost.

$$\begin{array}{r}
 ^2 \\
 1.50 \qquad 2 \text{ decimal places} \\
 \times 4 \qquad +0 \text{ decimal places} \\
 \hline
 6.00 \qquad 2 \text{ decimal places}
 \end{array}$$

- Multiply the same way you do with whole numbers.
- Find the number of decimal places in the product by combining the number of decimal places in the factors.

4 notebooks cost \$6.00, so Nelly will have enough money to buy them.

Jo has \$9.75 and wants to buy toys for her 3 pets. How much can she spend on each pet?

Divide \$9.75 by 3 to find out how much she can spend on each pet.

$$\begin{array}{r}
 \$3.25 \\
 3 \overline{) \$9.75} \quad \text{decimal point moves straight up} \\
 \underline{-9} \\
 07 \\
 \underline{-06} \\
 15 \\
 \underline{+15} \\
 0
 \end{array}$$

- Divide the same way you do with whole numbers.
- Remember to write the \$ symbol and the decimal point in the quotient.

Jo will have \$3.25 to spend on each pet.

Multiply or divide.

1. $\begin{array}{r} \$4.23 \\ \times 3 \\ \hline \end{array}$

2. $7 \overline{) \$2.31}$

3. $\begin{array}{r} \$2.68 \\ \times 4 \\ \hline \end{array}$

4. $5 \overline{) \$12.85}$
