Model Division

Find $4 \div \frac{1}{3}$.

**Step 1:** Draw a model that shows 4 whole units. Divide each whole unit into thirds.

**Step 2:** Count the sections to find how many thirds are in 4 wholes. $4 \div \frac{1}{3} = 12$

Find $\frac{6}{7} \div \frac{3}{7}$.

**Step 1:** Model $\frac{6}{7}$

**Step 2:** Find how many sets of $\frac{3}{7}$ are in $\frac{6}{7}$.

What is $\frac{3}{7} \div \frac{6}{7}$?

Match each question with the correct model. Then complete the division sentence.

1. What is 2 divided by $\frac{1}{3}$? $2 \div \frac{1}{3} = \underline{\hphantom{100}}$

2. What is 2 divided by $\frac{1}{4}$? $2 \div \frac{1}{4} = \underline{\hphantom{100}}$

3. What is 2 divided by $\frac{1}{5}$? $2 \div \frac{1}{5} = \underline{\hphantom{100}}$

Complete each division and multiplication to find $a$ and $b$.

Use fraction strips or grid paper for help.

4. $6 \div \frac{1}{3} = a$ \hspace{1cm} $6 \times 3 = b$

5. $9 \div \frac{1}{4} = a$ \hspace{1cm} $9 \times 4 = b$

Use your answers from Problems 4 and 5 to answer Problems 6 and 7.

6. What is true about $a$ and $b$ in each problem? \hspace{1cm}

7. To divide a whole number by a unit fraction, you can multiply the whole number by \hspace{1cm}.