Divide a Whole Number by a Unit Fraction

1. Write story contexts to illustrate three of the following problems:
   
   a) \( 6 \div \frac{1}{4} \)  
   b) \( 5 \div \frac{1}{2} \)  
   c) \( 4 \div \frac{1}{8} \)  
   d) \( 8 \div \frac{1}{3} \)

2. For each problem:
   - find the answer
   - draw a picture to prove your answer
   - use multiplication to reason about whether your answer makes sense

**Example:** \( 4 \div \frac{1}{8} = ? \) A bowl holds 4 cups of rice. If I use a measuring cup that holds \( \frac{1}{8} \) of a cup, how many times will I need to fill the measuring cup in order to fill the entire bowl?

**Think:** How many \( \frac{1}{8} \)'s are in 4? A whole has \( \frac{8}{8} \) so 4 wholes would be \( \frac{8}{8} + \frac{8}{8} + \frac{8}{8} + \frac{8}{8} = \frac{32}{8} \)

I created 4 boxes. Each box represents 1 cup of rice. I divided each box into eighths to represent the size of the measuring cup.

My answer is the number of small boxes, which is 32. That makes sense since \( 4 \times 8 = 32 \).