Divide a Whole Number by a Unit Fraction
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1. Write story contexts to illustrate three of the following problems:

$$\text{a) } 6 \div \frac{1}{4} \qquad \text{b) } 5 \div \frac{1}{2} \qquad \text{c) } 4 \div \frac{1}{8} \qquad \text{d) } 8 \div \frac{1}{3}$$

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 x 8 = 32.