

Divide a Whole Number by a Unit Fraction

1. Write a story context to illustrate three of the following problems:

A) $6 \div \frac{1}{4}$

B) $5 \div \frac{1}{2}$

C) $4 \div \frac{1}{5}$

D) $8 \div \frac{1}{3}$

2. For each problem:

- draw a model
- find the 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 $\frac{1}{2}$ of a cup, how many times will I need to fill the measuring cup in order to fill the entire bowl?

Think: How many $\frac{1}{8}$ 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 drew 4 rectangles. Each rectangle represents 1 cup of rice. I divided each rectangle into eighths to represent the size of the measuring cup.



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