Dividing a Fraction by a Whole Number



In this activity, you will use a unit square and the relationship between multiplication and division to divide a fraction by a whole number.

Make a conjecture about $\frac{1}{3}$ divided by 4.

Write your answer. Complete the unit square to show your reasoning. Check your answer using the interactive unit square.

Recall that multiplication and division are related: $20 \times 4 = 80$ can be written as $80 \div 4 = 20$. Write $4 \times \frac{1}{10} = \frac{2}{5}$ as a division

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3. A board is $\frac{4}{9}$ yard long. If you divide the length of the board into 3

equal parts, how long will each part be? Complete the unit square to show your reasoning.



4. Question Suppose that you know the following: $\frac{1}{8} \div 3 = \frac{1}{24}$. How could you use that information to answer $\frac{6}{8} \div 6$?