1. Create and solve a division story problem about 5 meters of rope that is modeled by the tape diagram below.

John has 5 meters of rope. He cuts each rope equally into fourths. How many fourths will he have altogether?

\[ 5 \div \frac{1}{4} = 5 \times 4 = 20 \]
He will have 20 fourths.

2. Create and solve a story problem about \( \frac{1}{4} \) pound of almonds that is modeled by the tape diagram below.

Amelia bought \( \frac{1}{4} \) pound of almonds. She shared them equally into bags for 5 days. How many pounds of almonds will she have each day? She will have \( \frac{1}{20} \) lb of almonds each day.

\[ \frac{1}{4} \div 5 = \frac{1}{4} \times \frac{1}{5} = \frac{1}{20} \]
3. Draw a tape diagram and create a word problem for the following expressions, and then solve.
   a. $2 \div \frac{1}{3} = 2 \times 3 = 6$
      \[ \begin{array}{c}
      \text{Lacey bought 2 pizzas, and they were each cut into thirds. How many slices will she have?}
      \\
      \text{She will have 6 slices.}
      \end{array} \]

   b. $\frac{1}{3} \div 4 = \frac{1}{3} \times \frac{1}{4} = \frac{1}{12}$

      \[ \begin{array}{c}
      \text{Janey bought $\frac{1}{3}$ kg of flour. She separated it equally for 4 cakes. How much flour will go in each cake?}
      \\
      \text{Each cake will receive $\frac{1}{12}$ kg of flour.}
      \end{array} \]

   c. $\frac{1}{4} \div 3 = \frac{1}{4} \times \frac{1}{3} = \frac{1}{12}$

      \[ \begin{array}{c}
      \text{John bought $\frac{1}{4}$ lb of nuts. He separated them into 3 bags. How many pounds will each bag have?}
      \\
      \text{Each bag will have $\frac{1}{12}$ lb.}
      \end{array} \]

   d. $3 \div \frac{1}{5} = 3 \times 5 = 15$

      \[ \begin{array}{c}
      \text{Lindsay bought 3 yards of fabric. She cut each yard into fifths for a project. How many fifths does Lindsay have?}
      \\
      \text{Lindsay has 15 fifths of fabric.}
      \end{array} \]