6.NS Dividing by a Fraction is the Same as Multiplying by its Reciprocal

Task

Part 1: Match each of the three equations with one of the two diagrams below. Explain how the diagram represents the equation.

\[
\frac{2}{3} \times 5 =? \\
\frac{2}{3} \times ? = 5 \\
\frac{3}{2} \times 5 =? \\
\]

Illustrative Mathematics
Part 2: Explain how the diagram below represents both of the equations below.

\[
\frac{3}{5} \times ? = A
\]

\[
\frac{5}{3} \times A = ?
\]

Write the first equation as a division equation. Put it together with the second equation without a ? in it.