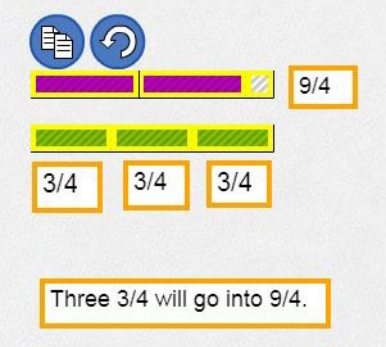
FRACTION DECOMPOSITION AND DIVISION

OPERATION K

Divide a fraction by a like-denominator fraction with a whole number result

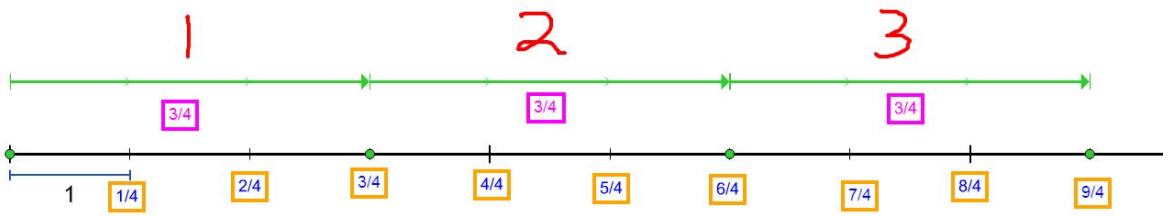
Prompt #2: How many $\frac{3}{4}$ are there in $\frac{9}{4}$?

Sample 4



Using the relational rod learning tool from mathies.ca, the student used two fourths relational rods (purple) and one unit rod (white) to represent $\frac{9}{4}$. Then the student lined up $\frac{3}{4}$ rods (green) until they had the same length as $\frac{9}{4}$. Counting the $\frac{3}{4}$ rods allowed them to see that the answer is 3.

Sample 5

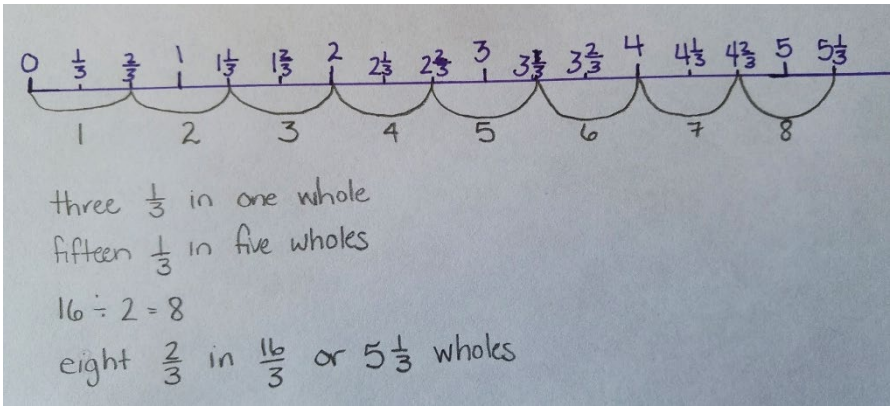


Using the number line learning tool in mathies.ca, the student created and labeled a number line from 0 to $\frac{9}{4}$. Then the student divided $\frac{9}{4}$ using $\frac{3}{4}$ hops (represented in green). The student counted how many hops they required to reach $\frac{9}{4}$ by labelling each $\frac{3}{4}$ hop and counted in red to determine their answer of three.

Prompt #3: How many $\frac{2}{3}$ are there in $\frac{15}{3}$?

<u>Teacher Note:</u>
Students could use the same process of either the concrete manipulatives shown in prompt #1 (Sample 1a and 1b) or the virtual manipulatives shown in prompt #2 (Samples 4 and 5).

Sample 6



The student used a number line. They labelled the number line from 0 to $5\frac{1}{3}$ which was partitioned it into thirds. The student created $\frac{2}{3}$ hops (shown in pencil) and, when they reached $5\frac{1}{3}$, realized they had made eight complete hops.