

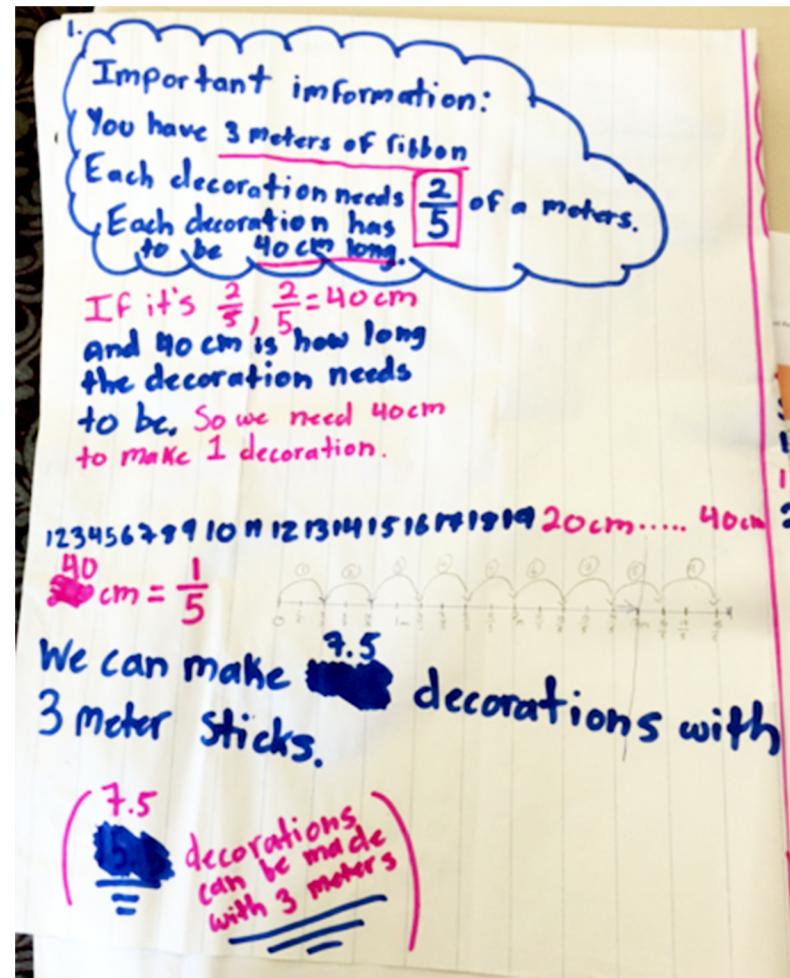
# RIBBON TASK

## OPERATION C

Add and subtract fractions with like denominators using models and symbols

### Sample 1

Students used a number line to show their thinking and used increments of  $\frac{2}{3}$ . They skip counted and showed this by using a “hopping technique.” The student correctly identified that  $\frac{1}{5}$  ribbon is left over and that  $\frac{1}{5}$  represents half of a decoration, meaning that 7.5 decorations could theoretically be made with the total amount of ribbon. However, it might be interesting to have a discussion with students about the reasonableness of this solution and whether it makes sense to make a half a decoration in this context.



Q:	K:
How many decorations can you make?	Have 3m of ribbon - Each decoration needs $\frac{2}{5}$ of 1 meter of ribbon.
You have 3m of ribbon to make decorations. Each decoration uses	
M:	A: You can make 7 decorations, with enough leftover ribbon to make $\frac{1}{2}$ a decoration
	If the ribbon was cut into 1 meter sections, you would only be able to make 6 decorations. 1 of the groups of meters would be cut in half.
$3m = \frac{15}{5}$ $40\text{cm} + 40\text{cm} + 40\text{cm} + 40\text{cm} + 40\text{cm} = 200\text{cm} (2\text{m}, 200\text{cm})$	

### Sample 2

Note that students chose to use centimetre measurements and converted  $\frac{2}{5}$  of a metre to 40 centimetres. They converted 3 m into  $\frac{15}{5}$ , then used whole number thinking to count the number of partitions in their solution, reasonably concluding that you can make 7 decorations with enough left over for half of another decoration.