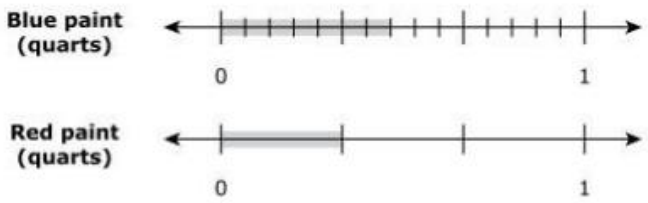
Name: _____ Date: _____

PART A

The number lines represent the amount of blue and red paint a student mixes together to make purple paint.



What is the total amount of purple paint, in quarts, the student makes?

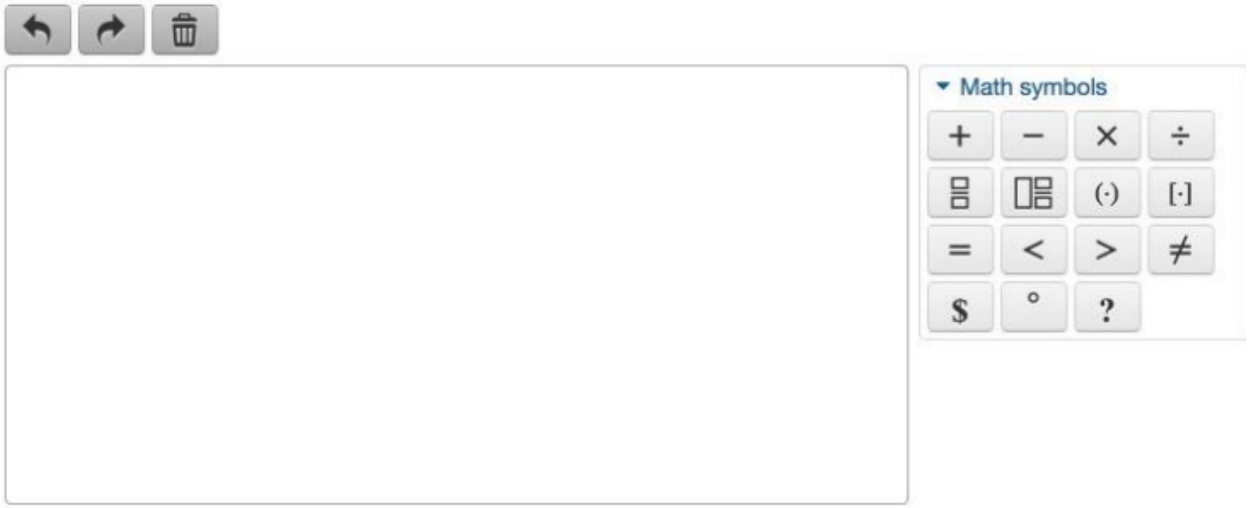
- A. $\frac{8}{15}$
- B. $\frac{12}{15}$
- C. $\frac{12}{18}$
- D. $\frac{8}{18}$

PART B

The student has $\frac{2}{3}$ quart of yellow paint in a container. The student uses $\frac{1}{2}$ quart of the yellow paint to make green paint.

- How many quarts of yellow paint remain in the container after the student makes the green paint?
- Explain how a number line could be used to find your answer.

Enter your answer and your explanation in the space provided.



ANSWER KEY

Rubric Part A	
Score	**Description**
1	Student response includes the following components: • Computation component = 1 point ○ Correct answer, B
0	Student response is incorrect or irrelevant.

Rubric Part B	
Score	**Description**

2	Student response includes the following 2 components:
	• Computation component = 1 point
	  ○ Correct fraction of yellow paint remaining, $\frac{1}{6}$ or equivalent
	• Reasoning component = 1 point
	  ○ Valid explanation of how a number line could be used to find the answer
	
	Sample Student Response:
	$\frac{4}{6} - \frac{3}{6} = \frac{1}{6}$ quart remaining yellow paint
	Make a number line from 0 – 1. Divide the number line into 6 equal parts.
	Then start on the 4th part and move to the left 3 parts to get the answer of $\frac{1}{6}$.
	
	OR other valid explanation.

1	Student response includes 1 of the above elements.
0	Student response is incorrect or irrelevant.

Glow	Grow