

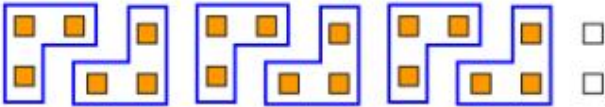


Timed Extended Construction Response (ECR) Task—Grade 6 November RPCS

Name: _____

Date: _____

Two students used different methods to evaluate $4\frac{1}{2} \div \frac{3}{4}$.

	Student 1	Student 2
Step 1		$4\frac{1}{2} \div \frac{3}{4}$
Step 2		$4\frac{2}{4} \div \frac{3}{4}$
Step 3		$\frac{18}{4} \div \frac{3}{4}$

For each step shown, explain how the diagram drawn by Student 1 relates to the expression written by Student 2. Show your work.

Enter your explanations and your work in the space provided.



▼ Math symbols

+	-	×	÷
±	-	·	/
=	≠	$\frac{\square}{\square}$	$\frac{\square\square}{\square\square}$
y^x	$\sqrt{\quad}$	$\sqrt[3]{\quad}$	π
(·)	°	·	

► Relations

► Geometry

ANSWER KEY

Rubric	
Score	Description
3	<p>Student response includes the following 3 elements.</p> <ul style="list-style-type: none"> • Reasoning component = 3 points <ul style="list-style-type: none"> ○ Correct explanation of relationship between work of Student 1 and work of Student 2 in step 1 ○ Correct explanation of relationship between work of Student 1 and work of Student 2 in step 2 ○ Correct explanation of relationship between work of Student 1 and work of Student 2 in step 3 <p>Sample Response: In step one, Student 1 represents $4\frac{1}{2}$ as five congruent figures, four of which are shaded entirely and one of which is shaded by half. In step two, Student 1 breaks every whole into four congruent parts, maintaining the original shading. Student 2 makes common denominators for $\frac{1}{2}$ and $\frac{3}{4}$, changing $4\frac{1}{2}$ to $4\frac{2}{4}$. Both students relate $4\frac{1}{2}$ as groups of 4. In step three, Student 1 groups the congruent figures into 6 groups of 3, which represents the value of $4\frac{1}{2} \div \frac{3}{4}$. Student 2 converts $4\frac{2}{4}$ into $\frac{18}{4}$, which is the number of grouped figures drawn by Student 1.</p>
2	Student response includes 2 of the 3 elements.
1	Student response includes 1 of the 3 elements.
0	Student response is incorrect or irrelevant.

Glow	Grow