

Name:

ANSWERS!

Period:



Communication



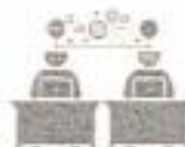
Scientific Partnership



Encouragement



Solving Problems Together



Collaborator

Part 6-3 Classwork A

No Calculators

Question 01

The blueprint of a house shows that the length (l) of a room must be greater than 28 inches and its width (w) greater than $17\frac{1}{2}$ inches.

Select the pair of inequalities that models the possible lengths for each dimension.

A. $l > 28$ and $w > 17\frac{1}{2}$

B. $l > 28$ and $w < 17\frac{1}{2}$

C. $28 > l$ and $17\frac{1}{2} > w$

D. $28 > l$ and $17\frac{1}{2} < w$

Question 02

Consider the inequality $x < 1$.

Determine whether each value of x makes the inequality true. Select Yes or No for each value.

	Yes	No
$-\frac{6}{8}$	✓	
$\frac{1}{7}$	✓	
$-\frac{7}{8}$	✓	
$\frac{3}{2}$		✓
$\frac{13}{6}$		✓

} all negatives and proper fractions are less than 1

} all positive improper fractions are greater than 1

Question 03

Consider the inequality $x > 8\frac{3}{4}$.

Determine whether each value of x makes the inequality true. Select Yes or No for each value.

	Yes	No
$-2\frac{1}{2}$		✓
$15\frac{3}{4}$	✓	
$-10\frac{1}{4}$		✓
12	✓	
$8\frac{1}{2}$		✓

Question 04

Select **all** the sets of numbers that are possible values for q in the inequality $q < \frac{1}{2}$.

A. $\{-1, 0, 1\}$

B. $\{-3, -1, 0\}$

C. $\{-\frac{1}{3}, 0, \frac{1}{3}\}$

D. $\{\frac{1}{4}, \frac{2}{4}, \frac{3}{4}\}$

Question 05

David says that there is not a fraction greater than $\frac{1}{4}$ and less than $\frac{1}{3}$. Kyle disagrees and gives an example with a denominator of 24.

$\frac{?}{24}$

Enter a possible whole number for the numerator in Kyle's fraction.

Answer: 7

$\frac{7}{24}$ is between $\frac{6}{24}$ (or $\frac{1}{4}$) and $\frac{8}{24}$ (or $\frac{1}{3}$)

$\frac{1}{4} = \frac{6}{24}$

$\frac{1}{4} = \frac{6}{24}$

$\frac{1}{3} = \frac{8}{24}$

$\frac{1}{3} = \frac{8}{24}$