

Add and subtract fractions with like denominators.

CCSS.MATH.CONTENT.4.NF.B.3.A | G4M5C25

You and your friend are back to Pixel Land. This time, your task is to collect the treasure. So, what are you waiting for? Let's go!

### Level 1 - The adventure of trains!

1

Trains A and B leaves Pixel Land at the same time. Train A has  $\frac{7}{10}$  coaches filled with passengers whereas Train B has  $\frac{4}{10}$  coaches filled with passengers. Which train has more passengers? Check ☒ the correct box.

☐

Train A

☐

Train B



2

The railway track in Pixel Land needs to be extended by 1 yd. Check ☒ the correct box that gives the total value of 1 yd.

☐

$$\left(\frac{4}{7} + \frac{1}{7}\right) \text{yd}$$

☐

$$\left(\frac{4}{11} + \frac{7}{11}\right) \text{yd}$$

☐

$$\left(\frac{5}{8} + \frac{2}{8}\right) \text{yd}$$

☐

$$\left(\frac{1}{9} + \frac{5}{9}\right) \text{yd}$$



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3

A passenger of Pixel Land train has bought  $\frac{3}{7}$  of all the tickets. Then, he returned  $\frac{2}{7}$  of all the tickets to the counter. What fraction of tickets are left with him? Write your answer in the boxes given below.

$$\frac{3}{7} \text{ (operation)} \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$



4

$\frac{3}{10}$  of Pixel Land train coaches are filled with passengers. If passengers from  $\frac{2}{10}$  of the coaches get down from the train, what fraction of the coaches have passengers? Write your answer in the boxes given below.

$$\frac{3}{10} \text{ (operation)} \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$



5

The area of the railway station at Pixel Land is increased by  $\frac{7}{8}$  in the north direction and decreased by  $\frac{2}{8}$  in the south direction. What fraction of the area is added to the railway station? Write your answer in the boxes given below.

$$\text{Change in the area of railway station} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} - \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$

North                  South



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1

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Train A



Train B



2

The railway track in Pixel Land needs to be extended by 1 yd. Check ☒ the correct box that gives the total value of 1 yd.



$$\left(\frac{4}{7} + \frac{1}{7}\right) \text{yd}$$



$$\left(\frac{4}{11} + \frac{7}{11}\right) \text{yd}$$



$$\left(\frac{5}{8} + \frac{2}{8}\right) \text{yd}$$



$$\left(\frac{1}{9} + \frac{5}{9}\right) \text{yd}$$



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3

A passenger of Pixel Land train has bought  $\frac{3}{7}$  of all the tickets. Then, he returned  $\frac{2}{7}$  of all the tickets to the counter. What fraction of tickets are left with him? Write your answer in the boxes given below.

$$\frac{3}{7} \begin{array}{|c|} \hline \text{ } \\ \hline \end{array} - \frac{\begin{array}{|c|} \hline 2 \\ \hline \end{array}}{\begin{array}{|c|} \hline 7 \\ \hline \end{array}} = \frac{\begin{array}{|c|} \hline 1 \\ \hline \end{array}}{\begin{array}{|c|} \hline 7 \\ \hline \end{array}}$$

(operation)



4

$\frac{3}{10}$  of Pixel Land train coaches are filled with passengers. If passengers from  $\frac{2}{10}$  of the coaches get down from the train, what fraction of the coaches have passengers? Write your answer in the boxes given below.

$$\frac{3}{10} \begin{array}{|c|} \hline \text{ } \\ \hline \end{array} - \frac{\begin{array}{|c|} \hline 2 \\ \hline \end{array}}{\begin{array}{|c|} \hline 10 \\ \hline \end{array}} = \frac{\begin{array}{|c|} \hline 1 \\ \hline \end{array}}{\begin{array}{|c|} \hline 10 \\ \hline \end{array}}$$

(operation)



5

The area of the railway station at Pixel Land is increased by  $\frac{7}{8}$  in the north direction and decreased by  $\frac{2}{8}$  in the south direction. What fraction of the area is added to the railway station? Write your answer in the boxes given below.

$$\text{Change in the area of railway station} = \frac{\begin{array}{|c|} \hline 7 \\ \hline \end{array}}{\begin{array}{|c|} \hline 8 \\ \hline \end{array}} - \frac{\begin{array}{|c|} \hline 2 \\ \hline \end{array}}{\begin{array}{|c|} \hline 8 \\ \hline \end{array}} = \frac{\begin{array}{|c|} \hline 5 \\ \hline \end{array}}{\begin{array}{|c|} \hline 8 \\ \hline \end{array}}$$

North South

