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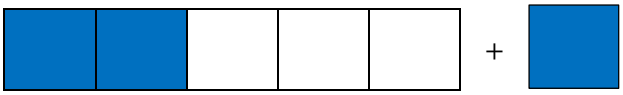
4.NF.B.3 Addition of Fractions (Same Denominators) - I

4.NF.B.3: Understand a fraction *a*/*b* with *a* > 1 as a sum of fractions 1/*b*.

Give what is asked in each item and then write your answers on the space provided.

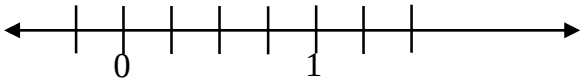
1. Answer the questions.

a. Use the following model to add $\frac{2}{5}$ and $\frac{1}{5}$.



Answer:

b. Use the following model to add $\frac{1}{4}$ and $\frac{3}{4}$.



Answer:

2. Use a model or a number line to answer the questions below. Convert the result into a proper fraction or mixed number.

a. $\frac{2}{11} + \frac{12}{11}$ b. $\frac{4}{7} + \frac{1}{7}$ c. $\frac{3}{8} + \frac{2}{8}$

Answers:
a. b. c.

3. Which among the choices displays like fractions? _____

a. $\frac{4}{9}, \frac{13}{15}$ b. $\frac{1}{4}, \frac{1}{9}$ c. $\frac{2}{5}, \frac{3}{7}$ d. $\frac{2}{10}, \frac{3}{10}$

4. Shine has different colored papers. Of the total number of colored papers, $\frac{2}{8}$ are green while $\frac{4}{8}$ are red. What fraction shows the total number of green and red papers?

Answer:

5. Andrei put several types of liquids in a can. He fills $\frac{5}{11}$ of the can with Liquid 1, $\frac{3}{11}$ with Liquid 2, and $\frac{2}{11}$ with Liquid 3.

a. What portion of the can is filled with a mixture of Liquid 1 and Liquid 2?
b. How much more of Liquid 4 can be added to the can without spilling it?

Answer:
a.

b.

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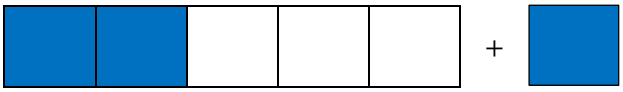
Answer Key

4.NF.B.3: Understand a fraction a/b with $a > 1$ as a sum of fractions $1/b$.

Give what is asked in each item and then write your answers on the space provided.

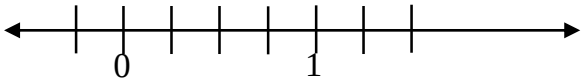
1. Answer the questions.

a. Use the following model to add $\frac{2}{5}$ and $\frac{1}{5}$.



Answer: $\frac{3}{5}$

b. Use the following model to add $\frac{1}{4}$ and $\frac{3}{4}$.



Answer: $\frac{4}{4} = 1$

2. Use a model or a number line to answer the questions below. Convert the result into a proper fraction or mixed number.

a. $\frac{2}{11} + \frac{12}{11}$ b. $\frac{4}{7} + \frac{1}{7}$ c. $\frac{3}{8} + \frac{2}{8}$

Answers:
a. $1\frac{3}{11}$ b. $\frac{5}{7}$ c. $\frac{5}{8}$

3. Which among the choices displays like fractions? d.

a. $\frac{4}{9}, \frac{13}{15}$ b. $\frac{1}{4}, \frac{1}{9}$ c. $\frac{2}{5}, \frac{3}{7}$ d. $\frac{2}{10}, \frac{3}{10}$

4. Shine has different colored papers. Of the total number of colored papers, $\frac{2}{8}$ are green while $\frac{4}{8}$ are red. What fraction shows the total number of green and red papers?

Answer: $\frac{2}{8} + \frac{4}{8} = \frac{6}{8} = \frac{3}{4}$

5. Andrei put several types of liquids in a can. He fills $\frac{5}{11}$ of the can with Liquid 1, $\frac{3}{11}$ with Liquid 2, and $\frac{2}{11}$ with Liquid 3.

a. What portion of the can is filled with a mixture of Liquid 1 and Liquid 2? Show your solution.
b. How much more of Liquid 4 can be added to the can without spilling it? Show your solution.

Answer:
a. $\frac{5}{11} + \frac{3}{11} = \frac{8}{11}$

b. $1 - \left(\frac{5}{11} + \frac{3}{11} + \frac{2}{11}\right) = \frac{11}{11} - \frac{10}{11} = \frac{1}{11}$ of the can