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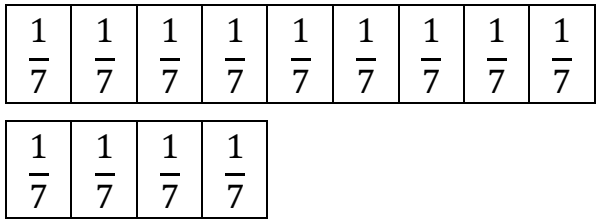
5.NF.A.1 Representing and Addding Like Fractions

5.NF.A.1: Add and subtract fractions with unlike denominators.

1. Use the model shown below to write an addition or subtraction expression. Find the value of the expression.

a.



b.

Solution:

a.

b.

2. Find the sum.

a. $\frac{2}{4}+\frac{1}{4}$

b. $\frac{5}{7}+\frac{3}{7}$

c. $\frac{4}{11}+\frac{5}{11}$

d. $\frac{9}{16}+\frac{11}{16}$

e. $\frac{15}{18}+\frac{17}{18}$

f. $\frac{1}{2}+\frac{4}{2}$

Answers:

a. d.

b. e.

c. f.

3. Which of the following expression will evaluate to $\frac{3}{5}$?

A. $\frac{3}{6}+\frac{3}{4}$ B. $\frac{2}{10}+\frac{4}{10}$ C. $\frac{1}{3}+\frac{1}{5}$ D. $\frac{2}{10}+\frac{3}{10}$

Answer:

4. There are many trees on our farm, $\frac{5}{12}$ of the trees are mango trees and $\frac{3}{12}$ of the trees are apple trees. What fraction of the trees are mango or apple trees?

Answer:

5. Olivia read $\frac{5}{27}$ of a story book in the morning. She read $\frac{11}{27}$ of the story book in the evening. What fraction of the story book was already read by Olivia?

Answer:

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5.NF.A.1 Representing and Addding Like Fractions

Answer Key

5.NF.A.1: Add and subtract fractions with unlike denominators.

1. Use the model shown below to write an addition or subtraction expression. Find the value of the expression.

a.

$\frac{1}{7}$	$\frac{1}{7}$	$\frac{1}{7}$	$\frac{1}{7}$	$\frac{1}{7}$	$\frac{1}{7}$	$\frac{1}{7}$	$\frac{1}{7}$	$\frac{1}{7}$

+

$\frac{1}{7}$	$\frac{1}{7}$	$\frac{1}{7}$	$\frac{1}{7}$

b.

Answers:

a. $\frac{9}{7} + \frac{4}{7} = \frac{13}{7}$

b. $\frac{5}{8} + \frac{2}{8} = \frac{7}{8}$

2. Find the sum.

a. $\frac{2}{4} + \frac{1}{4}$

b. $\frac{5}{7} + \frac{3}{7}$

c. $\frac{4}{11} + \frac{5}{11}$

d. $\frac{9}{16} + \frac{11}{16}$

e. $\frac{15}{18} + \frac{17}{18}$

f. $\frac{1}{2} + \frac{4}{2}$

Answers:

a. $\frac{3}{4}$

b. $\frac{8}{7}$

c. $\frac{9}{11}$

d. $\frac{20}{16}$

e. $\frac{32}{18}$

f. $\frac{5}{2}$

3. Which of the following expression will evaluate to $\frac{3}{5}$?

A. $\frac{3}{6} + \frac{3}{4}$ B. $\frac{2}{10} + \frac{4}{10}$ C. $\frac{1}{3} + \frac{1}{5}$ D. $\frac{2}{10} + \frac{3}{10}$

Answer:

B. $\frac{2}{10} + \frac{4}{10}$

4. There are many trees on our farm, $\frac{5}{12}$ of the trees are mango trees and $\frac{3}{12}$ of the trees are apple trees. What fraction of the trees are mango or apple trees?

Answer:

$\frac{8}{12}$

5. Olivia read $\frac{5}{27}$ of a story book in the morning. She read $\frac{11}{27}$ of the story book in the evening. What fraction of the story book was already read by Olivia?

Answer:

$\frac{16}{27}$