# Lesson 7-1: Estimating Sums and Differences of Fractions
Solve and Share

Content Standard: 5.NF.A.1, 5.NF.A.2
I Can Statement: I can estimate sums and differences of fractions

Jack needs about 1 ½ yards of string. He has three pieces of string that are different lengths. Without finding the exact amount, which two pieces should he choose to get closest to 1 ½ yard of string?

$\frac{1}{2}$ yard

$\frac{1}{3}$ yard

$\frac{7}{8}$ yard
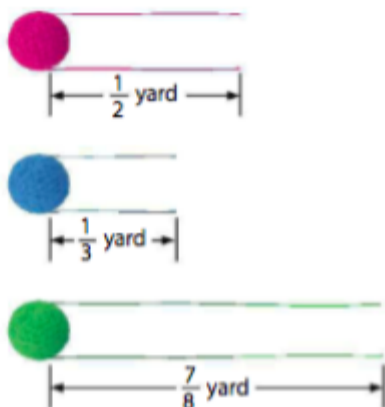
Lesson 7-1: Independent Practice
Find each difference.

1)

0        $\frac{1}{2}$ 1

a $\frac{11}{12}$ Closest to: _____

b $\frac{1}{6}$ Closest to: _____

Estimate the sum $\frac{11}{12} + \frac{1}{6}$.

c $1 +$ _____ _____ =

2)

0        $\frac{1}{2}$ 1

a $\frac{14}{16}$ Closest to: _____

b $\frac{5}{8}$ Closest to: _____

Estimate the difference $\frac{14}{16} - \frac{5}{8}$.

c _____ $-$ _____ _____ =

3)

0        $\frac{1}{2}$ 1

a $\frac{7}{8}$ Closest to: _____

b $\frac{5}{12}$ Closest to: _____

Estimate the difference $\frac{7}{8} - \frac{5}{12}$.

c _____ $-$ _____ _____ =

4) $\frac{9}{10} + \frac{5}{6}$

5) $\frac{11}{18} - \frac{2}{9}$

6) $\frac{24}{25} - \frac{1}{9}$

7) $\frac{1}{16} + \frac{2}{15}$

8) $\frac{37}{40} - \frac{26}{50}$

9) $\frac{3}{36} + \frac{1}{10}$

Lesson 7-2: Find Common Denominators
Solve and Share

Content Standard: 5.NF.A.1, 5.NF.A.2
I Can Statement: I can find common denominators for fractions with unlike denominators.

Sue wants ½ of a rectangular pan of cornbread. Dena wants ⅓ of the same pan of cornbread. How should you cut the cornbread so that each girl gets the size portion she wants?

Lesson 7-2: Independent Practice
Find each common denominator.

1) $\frac{3}{8}$ and $\frac{2}{3}$

2) $\frac{1}{6}$ and $\frac{4}{3}$

3) $\frac{5}{8}$ and $\frac{3}{4}$

4) $\frac{2}{5}$ and $\frac{1}{6}$

5) $\frac{1}{3}$ and $\frac{4}{5}$

6) $\frac{3}{10}$ and $\frac{9}{8}$

7) $\frac{5}{12}$ and $\frac{3}{5}$

8) $\frac{7}{9}$ and $\frac{2}{3}$

9) $\frac{3}{8}$ and $\frac{9}{20}$

Lesson 7-3: Add Fractions with Unlike Denominators
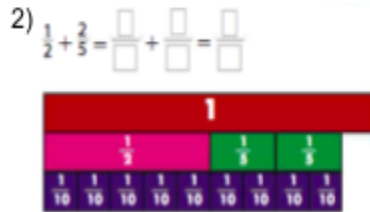### Solve and Share

Content Standard: 5.NF.A.1, 5.NF.A.2
I Can Statement: I can add fractions with unlike denominators.

Over the weekend, Eleni ate ¼ box of cereal, and Freddie ate ⅜ of the same box. What portion of the box of cereal did they eat in all?

Lesson 7-3: Independent Practice
Find each sum.

1) $\frac{1}{2} + \frac{1}{4} = \frac{\square}{\square} + \frac{\square}{\square} = \frac{\square}{\square}$

2) $\frac{1}{2} + \frac{2}{5} = \frac{\square}{\square} + \frac{\square}{\square} = \frac{\square}{\square}$

3) $\frac{1}{6} + \frac{1}{3} + \frac{1}{6} =$
$\frac{\square}{\square} + \frac{\square}{\square} + \frac{\square}{\square} = \frac{\square}{\square} = \frac{\square}{\square}$

4) $\frac{1}{2} + \frac{1}{6}$

Least multiple that is the same: _____

Add using renamed fractions:

_____ + _____ = _____   or $\frac{\square}{\square}$

5) $\frac{1}{9} + \frac{5}{6}$

Least multiple that is the same: _____

Add using renamed fractions:

_____ + _____ = _____

6) $\frac{2}{8} + \frac{1}{2}$

Least multiple that is the same: _____

Add using renamed fractions:

_____ + _____ = _____   or $\frac{\square}{\square}$

Lesson 7-4: Subtract Fractions with Unlike Denominators
Solve and Share

Content Standard: 5.NF.A.1, 5.NF.A.2
I Can Statement: I can subtract fractions with unlike denominators.

Rose bought the length of copper pipe shown below. She used ½ yard to repair a water line in her house. How much pipe does she have left?

$\frac{4}{6}$ yard

Lesson 7-4: Independent Practice
Find each difference.

1) $\frac{1}{4} = \frac{\square}{8}$

$-\frac{1}{8} = \frac{\square}{8}$

$\overline{\quad\frac{\square}{\square}}$

2) $\frac{2}{3} = \frac{\square}{6}$

$-\frac{1}{2} = \frac{\square}{6}$

$\overline{\quad\frac{\square}{\square}}$

3) $\frac{6}{7}$

$-\frac{1}{2}$

4) $\frac{2}{3}$

$-\frac{5}{9}$

5) $\frac{4}{5}$

$-\frac{1}{4}$

6) $\frac{3}{2}$

$-\frac{7}{12}$

7) $\frac{7}{10} - \frac{2}{5}$

8) $\frac{13}{16} - \frac{1}{4}$

9) $\frac{2}{9} - \frac{1}{6}$

Lesson 7-5: Add and Subtract Fractions
Solve and Share

Content Standard: 5.NF.A.1, 5.NF.A.2
I Can Statement: I can write equivalent fractions to add and subtract fractions with unlike denominators.

Tyler and Dean ordered pizza. Tyler ate ½ of the pizza and Dean ate ⅓ of the pizza. How much of the pizza was eaten, and how much is left?

Lesson 7-5: Independent Practice
Find each answer.

1)
$$\frac{4}{50}$$
$$+\frac{3}{5}$$

2)
$$\frac{2}{3}$$
$$-\frac{7}{12}$$

3)
$$\frac{9}{10}$$
$$+\frac{2}{100}$$

4) $\frac{17}{15} - \frac{1}{3}$

5) $\frac{7}{16} + \frac{3}{8}$

6) $\frac{2}{5} + \frac{1}{4}$

7) $\frac{1}{2} - \frac{3}{16}$

8) $\frac{7}{8} - \frac{2}{3}$

9) $\frac{11}{12} - \frac{4}{6}$

Lesson 7-6: Estimate Sums and Differences of Mixed Numbers
Solve and Share

Content Standard: 5.NF.A.1, 5.NF.A.2
I Can Statement: I can estimate sums and differences of fractions and mixed numbers.

Alex has five cups of strawberries. He wants to use 1 ¾ cups of strawberries for a fruit salad and 3 ½ cups for jam. Does Alex have enough strawberries to make both recipes?

Lesson 7-6: Independent Practice
Find each sum or difference.

1) $2\frac{1}{8} - \frac{5}{7}$

2) $12\frac{1}{3} + 2\frac{1}{4}$

3) $2\frac{2}{3} + \frac{7}{8} + 6\frac{7}{12}$

4) $1\frac{10}{15} - \frac{8}{9}$

5) $10\frac{5}{6} - 2\frac{3}{8}$

6) $12\frac{8}{25} + 13\frac{5}{9}$

7) $48\frac{1}{10} - 2\frac{7}{9}$

8) $33\frac{14}{15} + 23\frac{9}{25}$

9) $14\frac{4}{9} + 25\frac{1}{6} + 7\frac{11}{18}$

Lesson 7-7: Add Mixed Numbers
Solve and Share

Content Standard: 5.NF.A.1, 5.NF.A.2
I Can Statement: I can add mixed numbers.

Martina is baking bread. She mixes 1 ¾ cups of flour with other ingredients. Then she adds 4 ½ cups of flour to the mixture. How many cups of flour does she need?

Lesson 7-7: Independent Practice
Find each sum.

1) $2\frac{6}{10} + 1\frac{3}{5}$

2) $4\frac{5}{6} + 1\frac{7}{12}$

3) $2\frac{7}{8} + 5\frac{1}{2}$

4) $3\frac{1}{2} + 1\frac{3}{4}$

5) $1\frac{7}{8} + 5\frac{1}{4}$

6) $2\frac{6}{12} + 1\frac{1}{2}$

7) $3\frac{2}{5} + 1\frac{9}{10}$

8) $2\frac{7}{12} + 1\frac{3}{4}$

9) $4\frac{2}{5} + 3\frac{7}{10}$

Lesson 7-8: Add Mixed Numbers
Solve and Share

Content Standard: 5.NF.A.1, 5.NF.A.2
I Can Statement: I can add mixed numbers.

Jackie used two types of flour in a muffin recipe. How much flour did he use in all?

Basic Muffins Recipe
½ c milk
⅓ c melted butter
2 eggs
1 ½ c whole wheat flour
1 ⅔ c buckwheat flour
1 tsp baking powder

Lesson 7-8: Independent Practice
Find each sum.

1) $4\frac{1}{10}$
$+ 6\frac{1}{2}$

2) $9\frac{7}{12}$
$+ 4\frac{3}{4}$

3) 5
$+ 3\frac{1}{8}$

4) $2\frac{3}{4} + 7\frac{3}{5}$

5) $3\frac{8}{9} + 8\frac{1}{2}$

6) $1\frac{7}{12} + 2\frac{3}{8}$

7) $3\frac{11}{12} + 9\frac{1}{16}$

8) $8\frac{3}{4}$
$+ 7\frac{3}{4}$

9) $4\frac{1}{9} + 1\frac{1}{3}$

Lesson 7-9: Subtract Mixed Numbers
Solve and Share

Clara and Erin volunteered at an animal shelter a total of 9 ¾ hours. Clara worked for 4 ⅓ hours. How many hours did Erin work?

Lesson 7-9: Independent Practice
Find each difference.

1) $12\frac{3}{4} - 9\frac{5}{8}$

2) $8\frac{1}{6} - 7\frac{2}{3}$

3) $13\frac{7}{9} - 10\frac{2}{3}$

4) $6\frac{3}{4} - 3\frac{11}{12}$

5) $3\frac{1}{12} - 2\frac{3}{4}$

6) $4\frac{3}{5} - 1\frac{1}{10}$

7) $6\frac{1}{2} - 3\frac{7}{10}$

8) $6\frac{2}{3} - 4\frac{2}{9}$

9) $5\frac{1}{2} - 2\frac{5}{6}$

Lesson 7-10: Subtract Mixed Numbers
Solve and Share

Content Standard: 5.NF.A.1, 5.NF.A.2
I Can Statement: I can subtract mixed numbers

Evan walked 2 ⅛ of a mile to his aunt's house. He has already walked ¾ mile. How much further does he have to go?

Lesson 7-10: Independent Practice
Find each difference.

1)
$$4\frac{1}{8}$$
$$-1\frac{1}{2}$$

2)
$$6$$
$$-2\frac{4}{5}$$

3) $13\frac{1}{12} - 8\frac{1}{4}$

4) $9\frac{1}{2} - 6\frac{3}{4}$

5) $8\frac{3}{16} - 3\frac{5}{8}$

6) $7\frac{1}{2} - \frac{7}{10}$

7) $6\frac{1}{3} - 5\frac{2}{3}$

8) $15\frac{1}{6} - 4\frac{3}{8}$

9) $10\frac{5}{12} - 4\frac{7}{8}$

Lesson 7-11: Add and Subtract Mixed Numbers
Solve and Share

Content Standard: 5.NF.A.1, 5.NF.A.2
I Can Statement: I can add and subtract mixed numbers

Tim has 15 feet of wrapping paper. He uses 4 ⅓ feet for his daughter's present and 5 ⅜ feet for his niece's present. How much wrapping paper does Tim have left.

Lesson 7-11: Independent Practice
Find each sum or difference. Hint: Do the operations inside the parentheses first.

1)
$$9\frac{1}{3}$$
$$-\,4\frac{1}{6}$$

2)
$$12\frac{1}{4}$$
$$-\,9\frac{3}{5}$$

3)
$$6\frac{3}{5}$$
$$+\,1\frac{3}{25}$$

4)
$$3\frac{4}{9}$$
$$+\,2\frac{2}{3}$$

5) $\left(2\frac{5}{8} + 2\frac{1}{2}\right) - 4\frac{2}{3}$

6) $\left(5\frac{3}{4} + 1\frac{5}{6}\right) - 6\frac{7}{12}$

7) $\left(13 - 10\frac{1}{3}\right) + 2\frac{2}{3}$

8) $\left(2\frac{1}{2} + 3\frac{1}{4}\right) - 1\frac{1}{4}$

9) $2\frac{3}{14} + \left(15\frac{4}{7} - 6\frac{3}{4}\right)$