

Add and Subtract Fractions

Unit Test, Form A (page 1 of 2)

Score _____ / 10

1. Write the fraction as a sum of unit fractions.



$$\frac{4}{5} = \underline{\hspace{2cm}}$$

2. Break the fraction apart two different ways.



$$\frac{7}{12} = \frac{\boxed{}}{12} + \frac{\boxed{}}{12}$$

$$\frac{7}{12} = \frac{\boxed{}}{12} + \frac{\boxed{}}{12}$$

3. Add.

$$\frac{3}{10} + \frac{6}{10} = \frac{\boxed{}}{\boxed{}}$$

$$\frac{5}{12} + \frac{6}{12} = \frac{\boxed{}}{\boxed{}}$$

$$\frac{2}{5} + \frac{1}{5} + \frac{1}{5} = \frac{\boxed{}}{\boxed{}}$$

4. Subtract.

$$\frac{3}{5} - \frac{1}{5} = \frac{\boxed{}}{\boxed{}}$$

$$\frac{7}{12} - \frac{2}{12} = \frac{\boxed{}}{\boxed{}}$$

$$1 - \frac{3}{10} = \frac{\boxed{}}{\boxed{}}$$

5. Write each fraction as a mixed number. Write each mixed number as a fraction.

$$\frac{17}{5} = \boxed{} \frac{\boxed{}}{\boxed{}}$$

$$\frac{19}{12} = \boxed{} \frac{\boxed{}}{\boxed{}}$$

$$3\frac{3}{4} = \frac{\boxed{}}{4}$$

$$3\frac{1}{6} = \frac{\boxed{}}{6}$$

Add and Subtract Fractions

Unit Test, Form A (page 2 of 2)

6. Add. Write each sum as a mixed number.

$$1\frac{1}{3} + 3\frac{1}{3} = \boxed{} \frac{\boxed{}}{\boxed{}}$$

$$2\frac{7}{10} + 1\frac{6}{10} = \boxed{} \frac{\boxed{}}{\boxed{}}$$

7. Subtract. Write each answer as a mixed number.

$$5\frac{7}{8} - 2\frac{4}{8} = \boxed{} \frac{\boxed{}}{\boxed{}}$$

$$5\frac{1}{5} - 2\frac{3}{5} = \boxed{} \frac{\boxed{}}{\boxed{}}$$

8. Use benchmarks. Does each answer make sense? Circle Yes or No.

Ben says $\frac{5}{6} + \frac{3}{6} = \frac{8}{12}$. Yes
No

Ana says $\frac{9}{10} - \frac{4}{10} = \frac{5}{10}$. Yes
No

9. Write an equation for the story.
Then write the answer.

Kai hiked $2\frac{3}{8}$ miles in the morning and $1\frac{2}{8}$ miles in the afternoon. How far did he hike in all?

Equation: _____

Answer: miles

10. Write an equation for the story.
Then write the answer.

There was $\frac{9}{12}$ of a pizza left. Sam ate $\frac{4}{12}$ of the pizza. How much of the pizza is left now?

Equation: _____

Answer: of the pizza

Add and Subtract Fractions

Unit Test, Form B (page 1 of 2)

Score _____ / 10

1. Write the fraction as a sum of unit fractions.



$$\frac{4}{8} = \underline{\hspace{2cm}}$$

2. Break the fraction apart two different ways.



$$\frac{7}{8} = \frac{\boxed{}}{8} + \frac{\boxed{}}{8}$$

$$\frac{7}{8} = \frac{\boxed{}}{8} + \frac{\boxed{}}{8}$$

3. Add.

$$\frac{1}{10} + \frac{6}{10} = \frac{\boxed{}}{\boxed{}}$$

$$\frac{4}{12} + \frac{3}{12} = \frac{\boxed{}}{\boxed{}}$$

$$\frac{1}{6} + \frac{2}{6} + \frac{2}{6} = \frac{\boxed{}}{\boxed{}}$$

4. Subtract.

$$\frac{5}{8} - \frac{4}{8} = \frac{\boxed{}}{\boxed{}}$$

$$\frac{8}{12} - \frac{3}{12} = \frac{\boxed{}}{\boxed{}}$$

$$1 - \frac{4}{5} = \frac{\boxed{}}{\boxed{}}$$

5. Write each fraction as a mixed number. Write each mixed number as a fraction.

$$\frac{11}{3} = \boxed{} \frac{\boxed{}}{\boxed{}}$$

$$\frac{23}{10} = \boxed{} \frac{\boxed{}}{\boxed{}}$$

$$2\frac{5}{8} = \frac{\boxed{}}{8}$$

$$2\frac{4}{5} = \frac{\boxed{}}{5}$$

Add and Subtract Fractions

Unit Test, Form B (page 2 of 2)

6. Add. Write each sum as a mixed number.

$$2\frac{1}{8} + 1\frac{4}{8} = \boxed{} \frac{\boxed{}}{\boxed{}}$$

$$1\frac{4}{5} + 3\frac{3}{5} = \boxed{} \frac{\boxed{}}{\boxed{}}$$

7. Subtract. Write each answer as a mixed number.

$$5\frac{11}{12} - 2\frac{6}{12} = \boxed{} \frac{\boxed{}}{\boxed{}}$$

$$6\frac{3}{8} - 3\frac{6}{8} = \boxed{} \frac{\boxed{}}{\boxed{}}$$

8. Use benchmarks. Does each answer make sense? Circle Yes or No.

Kim says $\frac{4}{5} + \frac{2}{5} = \frac{6}{10}$.

Yes
No

Leo says $\frac{8}{10} - \frac{5}{10} = \frac{3}{10}$.

Yes
No

9. Write an equation for the story.
Then write the answer.

Dad used $1\frac{1}{6}$ cups of milk for pancakes and $2\frac{4}{6}$ cups for soup. How much milk did he use in all?

Equation: _____

Answer: cups

10. Write an equation for the story.
Then write the answer.

A rope is $\frac{3}{4}$ yard long. Sam cuts off $\frac{2}{4}$ yard to tie a box. How long is the rope now?

Equation: _____

Answer: yard

Add and Subtract Fractions

Unit Test, Form A (page 1 of 2)

Score _____ / 10

1. Write the fraction as a sum of unit fractions.



$$\frac{4}{5} = \frac{1}{5} + \frac{1}{5} + \frac{1}{5} + \frac{1}{5}$$

Lesson 8.1 · Sums of unit fractions

2. Break the fraction apart two different ways.



$$\frac{7}{12} = \frac{3}{12} + \frac{4}{12}$$

$$\frac{7}{12} = \frac{2}{12} + \frac{5}{12}$$

One way each

Lesson 8.2 · Break a fraction apart

3. Add.

$$\frac{3}{10} + \frac{6}{10} = \frac{9}{10}$$

$$\frac{5}{12} + \frac{6}{12} = \frac{11}{12}$$

$$\frac{2}{5} + \frac{1}{5} + \frac{1}{5} = \frac{4}{5}$$

Lesson 8.3 · Add fractions

4. Subtract.

$$\frac{3}{5} - \frac{1}{5} = \frac{2}{5}$$

$$\frac{7}{12} - \frac{2}{12} = \frac{5}{12}$$

$$1 - \frac{3}{10} = \frac{7}{10}$$

Lesson 8.4 · Subtract fractions

5. Write each fraction as a mixed number. Write each mixed number as a fraction.

$$\frac{17}{5} = 3\frac{2}{5} \quad \frac{19}{12} = 1\frac{7}{12}$$

$$3\frac{3}{4} = \frac{15}{4}$$

$$3\frac{1}{6} = \frac{19}{6}$$

Lesson 8.5 · Mixed numbers and fractions greater than 1

Add and Subtract Fractions

Unit Test, Form A (page 2 of 2)

6. Add. Write each sum as a mixed number.

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

$$2\frac{7}{10} + 1\frac{6}{10} = 4\frac{3}{10}$$

Lesson 8.6 · Add mixed numbers

7. Subtract. Write each answer as a mixed number.

$$5\frac{7}{8} - 2\frac{4}{8} = 3\frac{3}{8}$$

$$5\frac{1}{5} - 2\frac{3}{5} = 2\frac{3}{5}$$

Lesson 8.7 · Subtract mixed numbers

8. Use benchmarks. Does each answer make sense? Circle Yes or No.

Ben says $\frac{5}{6} + \frac{3}{6} = \frac{8}{12}$. Yes
No

Ana says $\frac{9}{10} - \frac{4}{10} = \frac{5}{10}$. Yes
No

Lesson 8.8 · Does the answer make sense?

9. Write an equation for the story. Then write the answer.

Kai hiked $2\frac{3}{8}$ miles in the morning and $1\frac{2}{8}$ miles in the afternoon. How far did he hike in all?

Equation: $2\frac{3}{8} + 1\frac{2}{8} = 3\frac{5}{8}$ One way

Answer: $3\frac{5}{8}$ miles

Lesson 8.9 · Fraction story problems

10. Write an equation for the story. Then write the answer.

There was $\frac{9}{12}$ of a pizza left. Sam ate $\frac{4}{12}$ of the pizza. How much of the pizza is left now?

Equation: $\frac{9}{12} - \frac{4}{12} = \frac{5}{12}$ One way

Answer: $\frac{5}{12}$ of the pizza

Lesson 8.9 · Fraction story problems

Add and Subtract Fractions

Unit Test, Form B (page 1 of 2)

Score _____ / 10

1. Write the fraction as a sum of unit fractions.



$$\frac{4}{8} = \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8}$$

Lesson 8.1 · Sums of unit fractions

2. Break the fraction apart two different ways.



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

$$\frac{7}{8} = \frac{1}{8} + \frac{6}{8}$$

One way each

Lesson 8.2 · Break a fraction apart

3. Add.

$$\frac{1}{10} + \frac{6}{10} = \frac{7}{10}$$

$$\frac{4}{12} + \frac{3}{12} = \frac{7}{12}$$

$$\frac{1}{6} + \frac{2}{6} + \frac{2}{6} = \frac{5}{6}$$

Lesson 8.3 · Add fractions

4. Subtract.

$$\frac{5}{8} - \frac{4}{8} = \frac{1}{8}$$

$$\frac{8}{12} - \frac{3}{12} = \frac{5}{12}$$

$$1 - \frac{4}{5} = \frac{1}{5}$$

Lesson 8.4 · Subtract fractions

5. Write each fraction as a mixed number. Write each mixed number as a fraction.

$$\frac{11}{3} = 3 \frac{2}{3}$$

$$\frac{23}{10} = 2 \frac{3}{10}$$

$$2 \frac{5}{8} = \frac{21}{8}$$

$$2 \frac{4}{5} = \frac{14}{5}$$

Lesson 8.5 · Mixed numbers and fractions greater than 1

Add and Subtract Fractions

Unit Test, Form B (page 2 of 2)

6. Add. Write each sum as a mixed number.

$$2\frac{1}{8} + 1\frac{4}{8} = 3\frac{5}{8}$$

$$1\frac{4}{5} + 3\frac{3}{5} = 5\frac{2}{5}$$

Lesson 8.6 · Add mixed numbers

7. Subtract. Write each answer as a mixed number.

$$5\frac{11}{12} - 2\frac{6}{12} = 3\frac{5}{12}$$

$$6\frac{3}{8} - 3\frac{6}{8} = 2\frac{5}{8}$$

Lesson 8.7 · Subtract mixed numbers

8. Use benchmarks. Does each answer make sense? Circle Yes or No.

Kim says $\frac{4}{5} + \frac{2}{5} = \frac{6}{10}$. Yes
No

Leo says $\frac{8}{10} - \frac{5}{10} = \frac{3}{10}$. Yes
No

Lesson 8.8 · Does the answer make sense?

9. Write an equation for the story. Then write the answer.

Dad used $1\frac{1}{6}$ cups of milk for pancakes and $2\frac{4}{6}$ cups for soup. How much milk did he use in all?

Equation: $1\frac{1}{6} + 2\frac{4}{6} = 3\frac{5}{6}$ One way

Answer: $3\frac{5}{6}$ cups

Lesson 8.9 · Fraction story problems

10. Write an equation for the story. Then write the answer.

A rope is $\frac{3}{4}$ yard long. Sam cuts off $\frac{2}{4}$ yard to tie a box. How long is the rope now?

Equation: $\frac{3}{4} - \frac{2}{4} = \frac{1}{4}$ One way

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

Lesson 8.9 · Fraction story problems