# Fractions (Part 2) STUDY GUIDE

- DO YOU FEEL READY FOR THE TEST?! Where do you feel you are?
- 3 MS
- 2 PMS
- I DNM

Competency 3 - Learning Target #1: 1 can add fractions with common denominators.

DIRECTIONS: Add the fractions. Simplify your answer. Show all your work!

1.) 
$$\frac{2}{7} + \frac{4}{7} = 6$$

2.) 
$$\frac{2}{10} + \frac{3}{10} =$$

3.) 
$$\frac{5}{7} + \frac{6}{7} =$$

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Competency 3 - Learning Target #2: 1 can add fractions with uncommon denominators.

DIRECTIONS: Add the fractions. Simplify your answer. Show all your work!

4.) 
$$\frac{1}{6} + \frac{2^{*2}}{3 \times 2}$$

$$\frac{1}{6} + \frac{4}{6} = \frac{5}{6}$$

$$\frac{5}{30} + \frac{6}{30} = \frac{11}{30}$$

6.) 
$$\frac{5^{\times 3}}{8 \times 3} + \frac{11}{12} \times \frac{1}{2}$$

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Competency 3 - Learning Target #3: 1 can subtract fractions with common denominators.

DIRECTIONS: Subtract the fractions. Simplify your answer. Show all your work

7.) 
$$\frac{5}{6} - \frac{1}{6} =$$

8.) 
$$\frac{14}{20} - \frac{12}{20} = \frac{2}{20} = \frac{2}{20}$$

9.) 
$$\frac{50}{60} - \frac{12}{60} = \frac{38}{60} =$$



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Competency 3 - Learning Target #4: I can subtract fractions with uncommon denominators.

DIRECTIONS: Subtract the fractions. Simplify your answer. Show all your work!

$$|O.\rangle \qquad \frac{4^{\times 2}}{5_{\times 2}} \frac{3}{10} =$$

$$\frac{8}{10} - \frac{3}{10} = \frac{5.5}{10.5} \left(\frac{1}{2}\right)$$

$$\frac{9}{12} - \frac{4}{12} = \frac{5}{12}$$

12.) 
$$\frac{4^{10}}{5^{10}} = \frac{1}{6} \times \frac{5}{5}$$

$$\frac{24}{30} - \frac{5}{30} = \frac{19}{30}$$

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Competency 3 - Learning Target #8: I can add mixed numbers.

DIRECTIONS: Add the mixed numbers. Simplify your answer. Show all your work!

13.) 
$$6\frac{1}{8} + 2\frac{5}{8} =$$

14.) 
$$5\frac{1}{5}$$
  $+ 2\frac{3}{10}$  =

15.) 
$$1\frac{5}{9} + 4\frac{1}{6} = \frac{15}{8}$$

$$1\frac{10}{18} + 4\frac{3}{18} =$$

$$\boxed{5\frac{13}{18}}$$

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Competency 3 - Learning Target #9: 1 can subtract mixed numbers.

DIRECTIONS: Subtract the mixed numbers. Simplify your answer. Show all your work!

$$16.) 7\frac{2}{5} - 2\frac{1}{5} =$$





$$7 - 5\frac{5}{6} =$$



I - DNM

Competency 3 - Learning Target #13: 1 can solve real-world and mathematical problems involving fractions using one or more of the four basic operations.

DIRECTIONS: Find the answer to the real-world problems. Show all your work!

19.)  $\frac{1}{4}$  of the boys in class are wearing jeans and  $\frac{1}{8}$  of the boys are wearing khaki pants. What fraction of the boys in class are wearing neither jeans or khakis?

3/8 - 3/8 = /5/8 are wearing heither jeans or kha

20.) Colin and Kai are selling pies. Colin has sold  $5\frac{2}{3}$  pies while Kai has sold  $7\frac{3}{4}$  pies. How many more pies

has Kai sold than Colin? 734-533.4  $7\frac{9}{12} - 5\frac{8}{17} = (2\frac{1}{12})$ 

Kai has sold 2/2 more pies than

21.) Ronnie and Jay drove to the Vermont to go skiing. Ronnie drove 132 $\frac{4}{5}$  miles. Then Jay drove the last 101  $\frac{3}{15}$  miles. How far did they drive to get to the ski resort?

132 % + 1013/5

+3/5 +3/5

22.) It takes Jessica  $9\frac{1}{2}$  minutes to run one mile. How long will it take Jessica to run 3.5°

9/2.3/2

23.) A mitten requires  $5\frac{4}{5}$  yard of yarn. How many mittens can be made from 25 yards of yarn?

25:5%

25 : 34

 $\Rightarrow \frac{25}{1} \times \frac{5}{29} =$ 

4 mitte

#### FULL RECIPE

#### PUPPY CHOW

9 cups Corn Chex cereal

I cup semisweet chocolate chips

1/2 cup peanut butter

1/4 cup butter

1 tsp pure vanilla

11/2 cups powdered sugar

#### HALF RECIPE

#### PUPPY CHOW

\_\_\_\_\_\_\_ cups Corn Chex cereal

\_\_\_\_\_\_ cups semisweet chocolate chips

\_\_\_\_\_\_\_ cups peanut butter

/8 cups butter

\_\_\_\_\_\_tsp pure vanilla

\_ cups powdered sugar

25.) Triple the following recipe. Show all your work!

### FULL RECIPE

Caramelized Onion Jam

1/4 cups olive oil

3 large sweet onions

2 bay leaves

I rosemary spria

1/2 cup sugar

3/4 cup balsamic vinegar

5/8 teaspoon kosher salt

## TRIPLE RECIPE

Caramelized Onion Jam

\_\_\_\_\_\_ cups olive oil

\_\_\_\_ large sweet onions

\_\_\_\_\_ bay leaves

\_\_\_\_3\_ rosemary sprig

1/2 cups sugar

214\_ cups balsamic vinegar

173\_ teaspoons Kosher salt

$$4 \cdot 3 = 3$$

$$\frac{3}{4} \cdot \frac{3}{7} = \frac{9}{4} = \frac{2}{4}$$
 $\frac{3}{8} \cdot \frac{3}{7} = \frac{15}{8} = \frac{17}{8}$