

Warm up

back of p 49

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

$$\begin{array}{r} 3\frac{2}{3} \\ + 1\frac{3}{4} \\ \hline \end{array}$$

Handwritten work for the addition above:

- 3 is circled in blue.
- 2/3 is multiplied by 4 to get 8/12.
- 3/4 is multiplied by 3 to get 9/12.
- The sum of the fractions is 17/12.
- 17/12 is simplified to 1 5/12.
- The final answer is 5 5/12, which is circled in green.

$$1\frac{5}{12} = \frac{17}{12}$$

$$5\frac{5}{12}$$

$$4\frac{5}{6} - 2\frac{2}{3}$$

$$\begin{array}{r} 4\frac{5}{6} \\ - 2\frac{2}{3} \\ \hline \end{array}$$

Handwritten work for the subtraction above:

- 5/6 is multiplied by 2 to get 10/12.
- 2/3 is multiplied by 4 to get 8/12.
- The difference of the fractions is 2/12.
- The final answer is 2 2/12, which is simplified to 2 1/6.

$$\frac{65}{12} = 5\frac{5}{12}$$

$$\begin{array}{r}
 4\frac{5}{6} \\
 - 2\frac{2}{3} \\
 \hline
 2\frac{1}{6}
 \end{array}$$

$$\begin{array}{r}
 29 \\
 \underline{6} \\
 8 \\
 \underline{3} \\
 13 \\
 \underline{6} \\
 2\frac{1}{6}
 \end{array}$$

Subtracting when you need to borrow. <sup>p.53</sup>

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

$$\begin{array}{r} \cancel{2}^1 \frac{2}{9} + \frac{9}{9} = \frac{11}{9} \\ - 1 \frac{5}{9} \\ \hline 1 \frac{6}{9} \end{array} = \frac{2}{3}$$

$$\begin{array}{r} 2\frac{2}{9} \\ - 1\frac{5}{9} \\ \hline \end{array} \quad \begin{array}{r} \frac{20}{9} \\ - \frac{14}{9} \\ \hline \frac{6}{9} \end{array}$$

$$5\frac{1}{3} - 3\frac{5}{9}$$

$$\begin{array}{r} 5\frac{1}{3} \\ - 3\frac{5}{9} \\ \hline \end{array} \quad \begin{array}{r} \frac{16}{3} \times 3 \frac{48}{9} \\ - \frac{32}{9} \frac{32}{9} \\ \hline \frac{16}{9} \end{array} \quad \left( 1\frac{7}{9} \right)$$

$$6\frac{3}{10} - 4\frac{2}{5}$$

Take out a sheet of paper and fold into four sections

You will begin at the station number that you were given. Work problems out on your folded paper. Timer will be set for 6 minutes at each station.

Station 7 is the only station with it's own paper. You will begin the work there and finish on your own.

<p><b>Problem #7:</b> What operation? <b>X</b> or <b>÷</b> For this problem I need to find _____</p> <p>Important information / Work space:</p> <p>Answer: _____</p>	<p><b>Problem #8:</b> What operation? <b>X</b> or <b>÷</b> For this problem I need to find _____</p> <p>Important information / Work space:</p> <p>Answer: _____</p>	<p><b>Problem #9:</b> What operation? <b>X</b> or <b>÷</b> For this problem I need to find _____</p> <p>Important information / Work space:</p> <p>Answer: _____</p>
<p><b>Problem #10:</b> What operation? <b>X</b> or <b>÷</b> For this problem I need to find _____</p> <p>Important information / Work space:</p> <p>Answer: _____</p>	<p><b>Problem #11:</b> What operation? <b>X</b> or <b>÷</b> For this problem I need to find _____</p> <p>Important information / Work space:</p> <p>Answer: _____</p>	<p><b>Problem #12:</b> What operation? <b>X</b> or <b>÷</b> For this problem I need to find _____</p> <p>Important information / Work space:</p> <p>Answer: _____</p>





1. There are 144 registered voters in Booker County. In the last election,  $\frac{3}{4}$  of them voted. How many voters voted in the last election?

$$\frac{3}{4} \times \frac{144}{1} = 108$$

2. Marta buys  $3\frac{3}{4}$  lbs. of pecans. If she divides them into bags containing  $\frac{7}{8}$  lb. each, how many bags does she fill?

$$3\frac{3}{4} \div \frac{7}{8} = \frac{15}{4} \times \frac{8}{7}$$

3. Sandra takes  $\frac{1}{2}$  hour to walk to school. She spends  $\frac{1}{2}$  of that time walking down her street. What part of an hour does Sandra spend walking down her street? How many minutes?

4. Claude has a piece of wood  $5\frac{5}{8}$  ft. long. It is 3 times the length he needs to make a small shelf. How long will the shelf be?

5. Students were given  $2\frac{2}{5}$  hours to take a timed test. Each student was allowed  $\frac{3}{5}$  hour for each section of the test. How many sections were there?

6. On Saturday, 39 teenagers went to the skateboard shop. Of those teens,  $\frac{1}{3}$  bought skateboards. How many teens bought skateboards?

7. A DJ plays songs for  $12\frac{1}{2}$  minutes without interruption. Each song lasts  $2\frac{1}{2}$  minutes. How many songs does the DJ play?

8. Richard and Hector walked to the picnic. Richard walked  $1\frac{3}{5}$  miles. Hector walked  $2\frac{1}{2}$  times as far as Richard. How far did Hector walk?

9. Gerri bought a piece of salmon that weighs  $2\frac{3}{4}$  lbs. She wants each serving to be  $\frac{1}{4}$  lb. How many servings can she make?

10. Mr. Jackson has  $1\frac{2}{3}$  cup of fruit. The fruit is  $\frac{1}{4}$  grapes. How many cups of grapes does he have?

11. The area of a rectangular rug is  $19\frac{1}{4}$  square feet. The rug is  $5\frac{1}{2}$  feet long. What is the width?

12. At Longwood School,  $\frac{3}{5}$  of the students in sixth grade are boys. Of those boys,  $\frac{1}{3}$  are on honor roll. What fraction of the sixth-grade boys are on the honor roll?

Pre-Algebra

homework Name \_\_\_\_\_ ID: 1

Assignment

Date \_\_\_\_\_ Period \_\_\_\_\_

Evaluate each expression.

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

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

3)  $4\frac{5}{8} - \frac{5}{6}$

4)  $3\frac{3}{5} - \frac{4}{7}$

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

6)  $3\frac{1}{4} + 1\frac{1}{4}$

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

8)  $4\frac{3}{7} - 3\frac{1}{6}$

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

10)  $4\frac{1}{2} - \frac{3}{7}$

Pre-Algebra

Name \_\_\_\_\_

ID: 1

Assignment

Date \_\_\_\_\_ Period \_\_\_\_\_

Evaluate each expression.

$$1) 1\frac{1}{2} + 1\frac{2}{7} = 2\frac{11}{14}$$

$$2) 4\frac{3}{5} + 2\frac{3}{4} = 7\frac{7}{20}$$

$$\frac{92}{20} + \frac{55}{20} = \frac{147}{20}$$

$$\frac{92}{20} + \frac{55}{20} = \frac{147}{20}$$

$$3) 4\frac{5}{8} - \frac{5}{6} = 3\frac{19}{24}$$

$$\frac{111}{24} - \frac{20}{24} = \frac{91}{24}$$

$$\frac{111}{24} - \frac{20}{24} = \frac{91}{24}$$

$$4) 3\frac{3}{5} - \frac{4}{7} = 3\frac{1}{35}$$

$$5) 2\frac{3}{5} - 2\frac{1}{2} = \frac{1}{10}$$

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

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

$$8) 4\frac{3}{7} - 3\frac{1}{6} = 1\frac{11}{42}$$

$$9) 3\frac{1}{2} - 2\frac{5}{7} = \frac{11}{14}$$

$$10) 4\frac{1}{2} - \frac{3}{7} = 4\frac{1}{14}$$

## Day Trip

Dale's family of three was driving to Washington DC. They stayed overnight, toured the city the next day, and returned home in the evening. They had to pay for dinner, breakfast, and lunch. They slept at Grandma's house. Breakfast at McDonald's was \$5.32 each. Lunch at Kentucky Fried Chicken was \$6.29 each. Dinner at Wendy's was \$7.89 each.

What did they spend at each restaurant?

Is \$65.00 enough money to pay for their food?

If yes, then how much money will they have left?

If no, then how much more money do they need?

Show your work to justify your answer.

## Cat Sitting

1. Reese always feeds her neighbor's cat when they're away for more than a few days. She receives \$60.00 to feed the cat for 15 days. At this pay rate, how many days will she have to feed the cat this fall to earn \$52.00 to buy holiday gifts for her friends?

2. Reese is excited to learn that her neighbors are going on vacation for 3 weeks! Her favorite band is coming to the Farm Bureau Live at Virginia Beach Amphitheater in late August and Reese wants to earn enough money to buy concert tickets that cost \$85.00. Will she have enough money? Explain.

## Map Flight

On an atlas map, the scale shows that one inch represents 250 miles. If the straight line distance from Chicago to St. Louis measures  $1\frac{1}{4}$  inches on the map, what is the approximate airline distance from Chicago to St. Louis? Show how you arrived at your answer.

Explain how you could find the airline distance from any two cities in the continental United States using this map.

## Summer Job

You have a dog walking business in the summer. You charge customers \$1.20 to walk one dog for  $\frac{1}{8}$  mile. If you walked 5 dogs last week (each dog walks the same distance) and you earned a total of \$18.00, how far did each individual dog walk?

## Math Grades

*Cody's math scores on his quizzes are as follows:*

$$\frac{3}{5}$$

0.625

$$\frac{3}{4}$$

$$\frac{7}{10}$$

87.5%

*Will Cody's average quiz grade be above or below 70%?*



## Dessert Menu

Look at the dessert portion of the menu below.

Three friends, Chris, Jordan, and Devin have decided that they will each buy a dessert and share the cost evenly. What is the least that each will pay if each orders a different dessert? If they all order the three most expensive desserts, what will they each pay?

### Desserts

Cherry Pie \$3.89

Apple Cobbler \$4.05

Ice Cream \$2.84

Frozen Yogurt \$2.96

Cheesecake \$5.14

