lesson twenty-five - student resource sheet

Lesson Objective: Add and subtract fractions with like denominators.

Vocabulary Box

fraction – A number used to name a part of a group or a whole. The number below the bar is the denominator, and the number above the bar is the numerator. Example: The fraction one-seventh is written $\frac{1}{7}$.

numerator – The top part of a fraction; the number of parts of the whole. Example: The numerator in $\frac{1}{7}$ is 1.

denominator – The bottom part of a fraction; the number of parts into which the whole is divided. Example: The denominator in $\frac{1}{7}$ is 7.

Independent Practice

I. Directions: Find the sum or difference of these practice problems on your own. Your teacher will review the answers.

$\frac{5}{7} - \frac{4}{7} =$

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

$\frac{7}{15} + \frac{2}{15} =$

$\frac{6}{18} + \frac{11}{18} =$

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

$\frac{11}{12} - \frac{10}{12} =$

$\frac{5}{19} + \frac{7}{19} =$

$\frac{16}{20} - \frac{12}{20} =$

II. Directions: Find and circle the equations that represent the sums or the differences.

Sum: $\frac{7}{9}$

A. $\frac{2}{9} + \frac{6}{9}$

B. $\frac{3}{9} + \frac{4}{9}$

C. $\frac{5}{9} + \frac{4}{9}$

Difference: $\frac{8}{10}$

A. $\frac{9}{10} - \frac{1}{10}$

B. $\frac{10}{10} - \frac{1}{10}$

C. $\frac{8}{8} + \frac{2}{8}$

Sum: $\frac{9}{13}$

A. $\frac{5}{13} + \frac{3}{13}$

B. $\frac{8}{13} + \frac{4}{13}$

C. $\frac{5}{13} + \frac{4}{13}$

Difference: $\frac{5}{11}$

A. $\frac{9}{11} - \frac{1}{11}$

B. $\frac{6}{11} - \frac{1}{11}$

C. $\frac{9}{11} - \frac{2}{11}$

Directions: Find the sum or difference.

$\frac{11}{15} - \frac{9}{15} =$

$\frac{5}{21} + \frac{7}{21} =$

$\frac{11}{12} - \frac{8}{12} =$

$\frac{17}{20} - \frac{11}{20} =$

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Sandy planted a garden this spring. She wanted to be able to eat fresh, organic food for the summer. She planted nine rows of food. Four of the rows were planted with corn on the cob. The next two rows were planted with tomatoes. Carrots took up the rest of the rows.

1. Use the box below to organize your information.

2. Write a fraction for each type of vegetable.

Corn	Tomatoes	Carrots

3. What fraction of the rows in the garden did Sandy plant with corn and tomatoes? Show the addition problem and the answer.

4. What fraction of the rows in the garden did Sandy plant with carrots and tomatoes? Show the addition problem and the answer.

5. Which fraction of rows is larger: carrots and corn or carrots and tomatoes? Show the fraction number sentences you use to solve this problem and explain your work.

1. I know that when I add or subtract fractions with like denominators, I simply add or subtract the _____.

2. $\frac{12}{17} - \frac{9}{17} =$

3. $\frac{13}{20} + \frac{5}{20} =$

lesson twenty-six - student resource sheet

Lesson Objective: Add and subtract decimals to the hundredths place with other decimals to the hundredths place.

Vocabulary Box

decimal numbers – The numbers in the base 10 number system that have one or more places to the right of a decimal point. Example: 324.16.

decimal point – A small mark, made with a period, that separates the whole number places from the decimal places in decimal numbers. Example: In 324.16, the decimal point separates the whole number 324 from the sixteen-hundredths in the decimal places.

tenths place – The first place to the right of the decimal point in a decimal number. Example: In 324.16, the 1 is in the tenths place and is equal to 1 of 10 equal parts.

hundredths place – The second place to the right of a decimal point in a decimal number. Example: In 324.16, the 6 is in the hundredths place and is equal to 6 of 100 equal parts.

Guided Practice

I. Directions: Complete the following practice problems with your partner. Your teacher will review the answers. Make sure you show all your work using this place value chart.

Hundreds	Tens	Ones	Tenths	Hundredths

1. 423.12
   +126.65

Hundreds	Tens	Ones	Tenths	Hundredths

2. 36.15
   + 197.26

Hundreds	Tens	Ones	Tenths	Hundredths

3. 173.40
<u>– 84.12</u>

II. <u>Directions</u>: Solve the following problems, using the skills you learned in this lesson. Work on these problems independently.

257.19	22.41	763.91
<u>+ 34.20</u>	<u>+ 322.15</u>	<u>– 639.07</u>

Summary/Closure

A. Vocabulary Words

Directions: For each vocabulary word listed, draw a line that connects it to the correct definition.

decimal number	a small mark made with a period that separates whole numbers and decimal numbers
decimal point	the second place to the right of a decimal point
tenths place	a number with one or more places to the right of the decimal point
hundredths place	the first place to the right of the decimal point

B. Summarize What We Learned Today

Create one addition problem and one subtraction problem in which decimal numbers are involved. Be sure to create problems in which the decimal positions are the same. Once you have created and solved your problems, write the steps you followed to solve the problems. These notes will help you in the future.

lesson twenty-seven - student resource sheet

Lesson Objective: Add and subtract decimals to the hundredths place with other decimals to the hundredths place.

Vocabulary Box

decimal numbers – The numbers in the base 10 number system that have one or more places to the right of a decimal point. Example: 324.16.

decimal point – A small mark, made with a period, that separates the whole number places from the decimal places in decimal numbers. Example: In 324.16, the decimal point separates the whole number 324 from the sixteen-hundredths in the decimal places.

tenths place – The first place to the right of the decimal point in a decimal number. Example: In 324.16, the 1 is in the tenths place and is equal to 1 of 10 equal parts.

hundredths place – The second place to the right of a decimal point in a decimal number. Example: In 324.16, the 6 is in the hundredths place and is equal to 6 of 100 equal parts.

Independent Practice

Directions: Complete the following practice problems on your own. Your teacher will review the answers. Make sure you show all your work.

1. 72.36 + 143.29

2. 721.26 – 316.92

3. 425.16 – 311.37

4. 617.2 + 91.5

5. 176.5 – 92.6

6. 772.60 – 381.25

7. 74.39 + 65.96

8. 51.36 + 321.95

9. 396.12 – 149.20

BONUS?

Rewrite the following problems vertically, then solve.

1. 71.36 + 54.77
2. 137.21 – 85.65
3. 816.7 – 319.6

Problem Solving

Sarah wants to go over her monthly bills so she can budget her paycheck. Her last phone bill was $69.23. Her electric bill cost her $136.45. She pays $705 for rent. Her car payment is $319.00. This month, her insurance bill was $217.50.

Use the area below to organize the information.

Sarah's Monthly Bills	
Phone	$
Electric	$
Rent	$
Car	$
Insurance	$

1. How much did Sarah spend, last month, on her phone and electric bills? _____
2. How much more does Sarah spend on rent than on her car? _____
3. How much more did Sarah spend on insurance than on her phone? _____
4. How much more did she spend on her car and insurance together than on her electric and phone? _____

1. How many tenths are in 1 whole? _____

2.
$$\begin{array}{r} 324.32 \\ +\ 456.01 \\ \hline \end{array}$$

3.
$$\begin{array}{r} 369.17 \\ -\ 123.25 \\ \hline \end{array}$$