

Consult 4 Kids Lesson Plans

Component	Math
Grade Level:	4 th & 5 th Grades
Lesson Title:	Adding Decimals
Focus:	Decimals

Materials:	
White boards	Activities at end of lesson plan
Crayolas	Vocabulary Notebooks
Deck of cards	Socks (use as erasers)

Opening

State the objective

Today we are going to practice using our math vocabulary and skills with decimals.

Gain prior knowledge by asking students the following questions

What do you know about decimals? When do we use decimals? The word decimal refers to 10. The place value of the spaces to the right of the decimal point begins with tenths. What comes next? How many places over would you find millionths? How do we use decimals to indicate money?

Content (the "Meat")

<p>Problem of the Day</p> <p>Look at the problem below. Solve the problem and then create a story to match the problem.</p> <p style="text-align: center;">\$85.00 - \$42.50 =</p>	<p>*Activity → Teachable Moment(s) throughout</p> <p>During the lesson check in with students repeatedly. Check in about what is happening and what they are thinking.</p> <p>Take advantage of any teachable moments. Stop the class and focus on a student's key learning or understanding. Ask open-ended questions to determine what the rest of the group is thinking. When possible, engage students in "teaching to learn".</p>
<p style="text-align: center;">Fact Practice</p> <p>Multiplication War</p> <ul style="list-style-type: none"> • Divide students into pairs. Give each pair a deck of cards without face cards and jokers. • Shuffle the deck and divide the cards evenly between the two players • On go, the players turn over the cards at the same time • Students multiply the 2 numbers that have been turned up • First person to give the answer either wins the cards because the answer is correct, or has to turn over 2 cards because he/she gave the wrong answer • At the end of round, students may reshuffle the pile of cards that they have • Play can continue until one player has all cards or time has called 	

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Math Vocabulary

Word for Today: decimal

Description: The term decimal refers to 10. We have a number system based on ten. Ten stands for 10 single units, 100 is for 10 tens, or 100 units, and so on. The decimal point followed by numbers indicates that those numbers are not representing a whole, but a portion of the whole. They represent tenths (10 pieces), hundredths (100 pieces), thousandths (1,000 pieces), and so on. Unlike fractions, decimals can only be divided into ten and multiples of tens.

Enter the word decimal in your Vocabulary Notebook. Share your entry with a peer.

Vocabulary Notebook Sample:

<p>New Word</p> <p style="text-align: center;">decimal</p>	<p>My Description</p> <p style="text-align: center;">related to ten</p>
<p>Personal Connection</p> <p style="text-align: center;">.567 is five-hundred sixty-seven thousandths</p>	<p>Drawing</p> <p style="text-align: center;"></p>

It is important to review academic math vocabulary often throughout the day. Complete the Vocabulary notebook for each word. When possible, have students experience the word (Ex. 4 students creating a right angle, multiple students acting out an equation). Vocabulary Notebooks can be made from 1/2 of a composition book.

Activity

Addition of Decimals

In order to add decimals you only have to remember one step beyond normal addition. That step is to align the decimal points. This means that you will be more successful if you write the problems vertically. For example if the problem is $34.25 + 1.234 + 5.4 =$, we would begin by writing the problem vertically and line up the decimals. The problem would look like this:

$$\begin{array}{r}
 34.250 \\
 1.234 \\
 \underline{5.400} \\
 \hline
 \end{array}$$

You will notice that in order to line up the decimals you add zeros at the end so that all of the decimals have the same number of digits after the decimal point. The total of the problem above would be 39.884 and would be read 39 and eight hundred eighty-four thousandths. The AND represents the decimal point and the thousandths is used because the last digit is in the thousandths place.

Do several of these problems on the board with the students, bringing them up and having them work through the problem, focusing on getting the decimal points lined up before adding.

Adding Decimals

Directions:

1. Divide students into pairs.
2. Give each pair a set of Adding Decimals cards and a game board.
3. Shuffle the cards and put them between the students.

Focus on having young people “compete” in pairs or small groups. Once a game is mastered you can utilize it in the “When Homework Is” center.

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| <ol style="list-style-type: none"> 4. Player 1 draws a card, completes the problem, locates the answer on the game board and marks it with a token. 5. Player 2 continues in the same way. 6. Play is over when all answers are covered. | |
|---|--|

Closing

Review

Say:

- Please recap what we did today.
- Did we achieve our objectives?

Debrief

Three Whats

Ask the following three what questions:

What was your key learning for the day?

What opportunities might you have to do this same thing in the “real world”?

What advice would you give to a “new” player getting ready to play this game so he/she could get all the blocks are completed?

Reflection (Confirm, Tweak, Aha!)

1. Ask students to think about what they did today in math.
2. Ask them to comment on what they did today was something they already knew how to do. (Confirmation)
3. Ask them to comment on what they did today that was like something they had done before except in one particular way which was new to them. (Tweak)
4. Ask them to comment on something (if anything) they have learned today that was brand new to them.

Consult 4 Kids Lesson Plans

4th -5th Grade Addition of Decimals

$\begin{array}{r} 14.2 \\ +12.1 \\ \hline \end{array}$	$\begin{array}{r} 18.7 \\ +10.5 \\ \hline \end{array}$	$\begin{array}{r} 1.47 \\ +6.54 \\ \hline \end{array}$	$\begin{array}{r} 12.3 \\ +15.2 \\ \hline \end{array}$
$\begin{array}{r} 4.15 \\ 6.20 \\ +8.63 \\ \hline \end{array}$	$\begin{array}{r} 8.461 \\ .003 \\ +.212 \\ \hline \end{array}$	$\begin{array}{r} 33.421 \\ 7.350 \\ +42.600 \\ \hline \end{array}$	$\begin{array}{r} 2.26 \\ 3.43 \\ +8.15 \\ \hline \end{array}$
$\begin{array}{r} 16.6 \\ +13.8 \\ \hline \end{array}$	$\begin{array}{r} 18.2 \\ +16.5 \\ \hline \end{array}$	$\begin{array}{r} 15.2 \\ +13.0 \\ \hline \end{array}$	$\begin{array}{r} 22.2 \\ +13.1 \\ \hline \end{array}$
12.95 + 5.06 =	13.8 + 6.9 =	46.02 + 75.67 =	16.3 + 35.7 +
8.16 + 15.204 =	.007 + 1.12 =	5.98 + 35.8 =	.491+ .32 =
.491 + .56 =	22.44 + 1.908 =	32.15 + 64.23 =	14.501 + 62.03 =

Consult 4 Kids Lesson Plans

4th-5th Grade Addition of Decimals Answers

26.3	29.2	8.01	27.5
18.98	8.676	83.371	13.84
30.4	34.7	28.2	35.3
18.01	20.7	121.69	52.0
23.364	1.127	41.78	.811
1.051	24.348	96.38	76.531

Consult 4 Kids Lesson Plans

Component	Math
Grade Level:	4 th & 5 th Grades
Lesson Title:	Adding Decimals 2
Focus:	Decimals

Materials:	
White boards	Decks of cards
Crayolas	Vocabulary Notebooks
Socks (for erasers)	Activity at end of lesson plan

Opening
State the objective
Today we are going to practice using our math vocabulary and skills with decimals.
Gain prior knowledge by asking students the following questions
What do you know about decimals? When do we use decimals? The word decimal refers to 10. The place value of the spaces to the right of the decimal point begins with tenths. What comes next? How many places over would you find millionths? How do we use decimals to indicate money?


Content (the "Meat")	
Problem of the Day	<p>*Activity → Teachable Moment(s) throughout</p> <p>During the lesson check in with students repeatedly. Check in about what is happening and what they are thinking. Take advantage of any teachable moments. Stop the class and focus on a student's key learning or understanding. Ask open-ended questions to determine what the rest of the group is thinking. When possible, engage students in "teaching to learn".</p>
<p>You want to have your birthday party at Uncle Joe's Pizza Parlor. You are going to have 12 friends at your party. The birthday guest is free. If the cost is \$5.25 per person, what is the cost of this party? How do you know?</p>	
Fact Practice	<p>Math Vocabulary</p> <p>Word for Today: decimal</p>
<p>Fore-header</p> <ol style="list-style-type: none"> 1. Divide students into trios. Give each trio a deck of cards without face cards and jokers. 2. Shuffle the deck and give all of the cards to the referee who will be "judging" the contest 3. On go, players are each handed a card by the referee and WITHOUT looking, put the card face out on his/her forehead 4. The referee multiplies the two numbers together and states the answer 5. Each player looks at the other person's exposed number and names his/her own number 6. Person who wins (accuracy and time), collects both cards 7. Play continues until all cards are gone. 8. Players can repeat play (if there is another time) with each other so each has an opportunity to be both a player and referee 	

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Description: The term decimal refers to 10. We have a number system based on ten. Ten stands for 10 single units, 100 is for 10 tens, or 100 units, and so on. The decimal point followed by numbers indicates that those numbers are not representing a whole, but a portion of the whole. They represent tenths (10 pieces), hundredths (100 pieces), thousandths (1,000 pieces), and so on. Unlike fractions, decimals can only be divided into ten and multiples of tens.

Review the word decimal and share it with a peer.

Vocabulary Notebook Sample:

<p>New Word</p> <p style="text-align: center;">decimal</p>	<p>My Description</p> <p style="text-align: center;">related to ten</p>
<p>Personal Connection</p> <p style="text-align: center;">.567 is five-hundred sixty-seven thousandths</p>	<p>Drawing</p> <div style="text-align: center;">  </div>

often throughout the day
 Complete the Vocabulary notebook for each word.
 When possible, have students experience the word (Ex. 4 students creating a right angle, multiple students acting out an equation)
 Vocabulary Notebooks can be made from 1/2 of a composition book.

Activity Decimals

Addition of Decimals

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$$\begin{array}{r}
 34.250 \\
 1.234 \\
 \underline{5.400}
 \end{array}$$

You will notice that in order to line up the decimals you add zeros at the end so that all of the decimals have the same number of digits after the decimal point. The total of the problem above would be 39.884 and would be read 39 and eight hundred eighty-four thousandths. The AND represents the decimal point and the thousandths is used because the last digit is in the thousandths place.

Do several of these problems on the board with the students, bringing them up and having them work through the problem, focusing on getting the decimal points lined up before adding.

Adding Decimals

Directions:

1. Divide students into pairs.
2. Give each pair a set of Adding Decimals cards and a game board.
3. Shuffle the cards and put them between the students.
4. Player 1 draws a card, completes the problem, locates the answer on the game

Focus on having young people “compete” in pairs or small groups. Once a game is mastered you can utilize it in the “When Homework Is Complete” center.

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board and marks it with a token. 5. Player 2 continues in the same way. 6. Play is over when all answers are covered.	
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Closing
Review
<p>Say:</p> <ul style="list-style-type: none"> • Please recap what we did today. • Did we achieve our objectives?
Debrief
<p>Three Whats</p> <p>Ask the following three what questions:</p> <ul style="list-style-type: none"> What was your key learning for the day? What opportunities might you have to do this same thing in the “real world”? What advice would you give to a “new” student getting ready to do this activity?

<p>Reflection (Confirm, Tweak, Aha!)</p> <ol style="list-style-type: none"> 1. Ask students to think about what they did today in math. 2. Ask them to comment on what they did today was something they already knew how to do. (Confirmation) 3. Ask them to comment on what they did today that was like something they had done before except in one particular way which was new to them. (Tweak) 4. Ask them to comment on something (if anything) they have learned today that was brand new to them.

Consult 4 Kids Lesson Plans

4th -5th Grade Addition of Decimals

$\begin{array}{r} 14.2 \\ +12.1 \\ \hline \end{array}$	$\begin{array}{r} 18.7 \\ +10.5 \\ \hline \end{array}$	$\begin{array}{r} 1.47 \\ +6.54 \\ \hline \end{array}$	$\begin{array}{r} 12.3 \\ +15.2 \\ \hline \end{array}$
$\begin{array}{r} 4.15 \\ 6.20 \\ +8.63 \\ \hline \end{array}$	$\begin{array}{r} 8.461 \\ .003 \\ +.212 \\ \hline \end{array}$	$\begin{array}{r} 33.421 \\ 7.350 \\ +42.600 \\ \hline \end{array}$	$\begin{array}{r} 2.26 \\ 3.43 \\ +8.15 \\ \hline \end{array}$
$\begin{array}{r} 16.6 \\ +13.8 \\ \hline \end{array}$	$\begin{array}{r} 18.2 \\ +16.5 \\ \hline \end{array}$	$\begin{array}{r} 15.2 \\ +13.0 \\ \hline \end{array}$	$\begin{array}{r} 22.2 \\ +13.1 \\ \hline \end{array}$
12.95 + 5.06 =	13.8 + 6.9 =	46.02 + 75.67 =	16.3 + 35.7 +
8.16 + 15.204 =	.007 + 1.12 =	5.98 + 35.8 =	.491+ .32 =
.491 + .56 =	22.44 + 1.908 =	32.15 + 64.23 =	14.501 + 62.03 =

4th-5th Grade Addition of Decimals Answers

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18.98	8.676	83.371	13.84
30.4	34.7	28.2	35.3
18.01	20.7	121.69	52.0
23.364	1.127	41.78	.811
1.051	24.348	96.38	76.531

Consult 4 Kids Lesson Plans

Component	Math
Grade Level:	4 th & 5 th Grades
Lesson Title:	Subtracting Decimals
Focus:	Decimals

Materials:

White boards	Vocabulary Notebooks
Crayolas	Socks (for erasers)
Dice	Activity at the end of the lesson plan

Opening

State the objective

Today we are going to practice using our math vocabulary and skills working with fractions.

Gain prior knowledge by asking students the following questions

What do you know about decimals? When do we use decimals? The word decimal refers to 10. The place value of the spaces to the right of the decimal point begins with tenths. What comes next? How many places over would you find ten-thousandths? How do we use decimals to indicate money?

Content (the "Meat")

Problem of the Day

The Doggie Beauty Parlor bathes and grooms dogs every day. The chart below shows how many dogs were bathed each day. On average, how many dogs were bathed each day?

Day	#
Monday	9
Tuesday	15
Wednesday	14
Thursday	8
Friday	12

***Activity → Teachable Moment(s) throughout**

During the lesson check in with students repeatedly. Check in about what is happening and what they are thinking. Take advantage of any teachable moments Stop the class and focus on a student's key learning or understanding. Ask open-ended questions to determine what the rest of the group is thinking. When possible, engage students in a "teach to learn" opportunity and have the student become the teacher.

Fact Practice

Spokes on a Wheel

1. Divide students into pairs
2. On a white board, student draws a small circle with 9 spokes coming out of it (should look like a bicycle tire)
3. Have students choose to put a 6, 7 or 8 in the center circle
4. Student rolls two dice and adds the pips (dots)
5. Taking this total, student writes a math problem on one of the spokes (eg. 7 is in the circle and students rolls a 3 and 5 which totals 8. The spoke equation would look like $7 \times 8 = 56$)

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6. Process continues until all spokes have an equation

Math Vocabulary

Word for Today: align decimals


Description: The term “align decimals” refers to the process of lining up decimals if you are going to add or subtract. This means that the decimals must be right under one another in a vertical set-up of the problem. Aligned decimals look this way:

12.320

-.546

To align the decimals you can add zeros to the right of the last digit. Students should enter the term in Vocabulary Notebook.

Vocabulary Notebook Sample:

<p>New Word</p> <p style="text-align: center;">align decimals</p>	<p>My Description</p> <p style="text-align: center;">vertical alignment of the decimal point</p>
<p>Personal Connection</p> <p>I will write the numbers .54 and .34 with the decimals aligned so I can add.</p>	<p>Drawing</p> <div style="text-align: center;">  <p style="margin: 0;"> $\begin{array}{r} .345 \\ - .261 \\ \hline \end{array}$ </p> </div>

It is important to review academic math vocabulary often throughout the day. Complete the Vocabulary notebook for each word. When possible, have students experience the word (Ex. 4 students creating a right angle, multiple students acting out an equation). Vocabulary Notebooks can be made from ½ of a composition book.

Activity Decimals

Subtraction of Decimals

In order to subtract decimals you only have to remember one step beyond normal subtraction. That step is to align the decimal points. This means that you will be more successful if you write the problems vertically. For example if the problem is $34.25 - 1.234 =$, we would begin by writing the problem vertically and lining up the decimals. The problem would look like this:

34.250

-1.234

You will notice that in order to line up the decimals you add zeros at the end so that all of the decimals have the same number of digits after the decimal point. The difference of the problem above would be 33.016 and would be read 33 and sixteen thousandths. The AND represents the decimal point and the thousandths is used because the last digit is in the thousandths place.

Do several of these problems on the board with the students, bringing them up and having them work through the problem, focusing on getting the decimal points lined up before subtracting.

Subtracting Decimals

Directions:

1. Divide students into pairs.
2. Give each pair a set of Subtracting Decimals cards and a game board.
3. Shuffle the cards and put them between the students.

Focus on having young people “compete” in pairs or small groups. Once a game is mastered you can utilize it in the “When Homework Is Complete” center.

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| <ol style="list-style-type: none"> 4. Player 1 draws a card, completes the problem, locates the answer on the game board and marks it with a token. 5. Player 2 continues in the same way. 6. Play is over when all answers are covered. | |
|---|--|

Closing

Review

Say:

- Please recap what we did today.
- Did we achieve our objectives?

Debrief

Three Whats

Ask the following three what questions:

What was your key learning for the day?

What opportunities might you have to do this same thing in the “real world”?

What advice would you give to a “new” student getting ready to do this activity?

Reflection (Confirm, Tweak, Aha!)

1. Ask students to think about what they did today in math.
2. Ask them to comment on what they did today was something they already knew how to do. (Confirmation)
3. Ask them to comment on what they did today that was like something they had done before except in one particular way which was new to them. (Tweak)
4. Ask them to comment on something (if anything) they have learned today that was brand new to them.

Consult 4 Kids Lesson Plans

4th -5th Grade Subtraction of Decimals

$\begin{array}{r} 5.6 \\ -3.2 \\ \hline \end{array}$	$\begin{array}{r} 10.4 \\ -8.2 \\ \hline \end{array}$	$\begin{array}{r} 8.5 \\ -3.5 \\ \hline \end{array}$	$\begin{array}{r} 7.8 \\ -4.5 \\ \hline \end{array}$
$\begin{array}{r} 9.3 \\ -7.5 \\ \hline \end{array}$	$\begin{array}{r} 86.5 \\ -2.3 \\ \hline \end{array}$	$\begin{array}{r} 6.3 \\ -4.1 \\ \hline \end{array}$	$\begin{array}{r} 8.7 \\ -5.2 \\ \hline \end{array}$
$\begin{array}{r} 326.7 \\ -42.8 \\ \hline \end{array}$	$\begin{array}{r} 14.021 \\ -5.600 \\ \hline \end{array}$	$\begin{array}{r} 1.589 \\ -0.756 \\ \hline \end{array}$	$\begin{array}{r} 16.882 \\ -9.300 \\ \hline \end{array}$
$16.4 - 8.2 =$	$75.4 - 3.1 =$	$7.6 - 3.2 =$	$26.7 - 2.5 =$
$19.5 - .001 =$	$.501 - .332 =$	$42.642 - 10.35 =$	$28.4 - 4.62 =$
$33.45 - 15.4 =$	$18.5 - 9.5 =$	$14.9 - 3.2 =$	$1.978 - 1.682 =$

Consult 4 Kids Lesson Plans4th -5th Grade Subtraction of Decimals

2.4	2.2	5	3.3
1.8	84.2	2.2	3.5
283.9	8.421	.833	7.582
8.2	72.3	4.4	24.2
19.499	.169	32.294	23.78
18.05	9	11.7	.296

Consult 4 Kids Lesson Plans

Component	Math
Grade Level:	4 th & 5 th Grades
Lesson Title:	Subtracting Decimals
Focus:	Decimals

Materials:		
White boards	Vocabulary Notebooks	Dominoes
Crayolas	Dice	
Activity at the end of the lesson plan	Socks (use for erasers)	

Opening

State the objective

Today we are going to practice using our math vocabulary and skills with fractions.

Gain prior knowledge by asking students the following questions

What do you know about decimals? When do we use decimals? The word decimal refers to 10. The place value of the spaces to the right of the decimal point begins with tenths. What comes next? How many places over would you find ten-thousandths? How do we use decimals to indicate money?

Content (the "Meat")

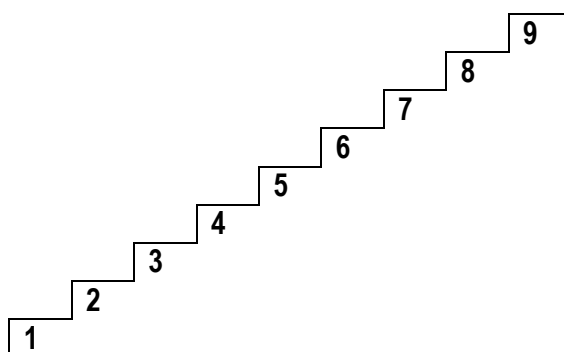
Problem of the Day

If apples are for sale at 6 for \$1.08. If Lily wants 15 apples, how much will had pay at this price? How did you get your answer?

Fact Practice

Multiplication Ladder

1. Give each student a white board (include marker or crayola)
2. Student should draw a ladder like the one below



3. Have student roll 2 dice, total the pips and then multiply that number times each of the numbers in the ladder, writing the total to the right of the number

***Activity → Teachable Moment(s) throughout**

During the lesson check in with students repeatedly. Check in about what is happening and what they are thinking. Take advantage of any teachable moments. Stop the class and focus on a student's key learning or understanding. Ask open-ended questions to determine what the rest of the group is thinking. When possible, engage students in a "teach to learn" opportunity and have the student become the teacher.

Consult 4 Kids Lesson Plans

Math Vocabulary


Word for Today: align decimals

Description: The term “align decimals” refers to the process of lining up decimals if you are going to add or subtract. This means that the decimals must be right under one another in a vertical set-up of the problem. Aligned decimals look this way:

$$\begin{array}{r} 12.320 \\ - .546 \\ \hline \end{array}$$

To align the decimals you can add zeros to the right of the last digit. Students should enter the term in Vocabulary Notebook.

Vocabulary Notebook Sample:

<p>New Word</p> <p style="text-align: center;">align decimals</p>	<p>My Description</p> <p style="text-align: center;">vertical alignment of the decimal point</p>
<p>Personal Connection</p> <p>I will write the numbers .54 and .34 with the decimals aligned so I can add.</p>	<p>Drawing</p> <div style="text-align: center;">  </div>

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Directions:

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Consult 4 Kids Lesson Plans

- | | |
|---|--|
| <ol style="list-style-type: none"> 5. Player 2 continues in the same way. 6. Play is over when all answers are covered. | |
|---|--|

Closing

Review

Say:

- Please recap what we did today.
- Did we achieve our objectives?

Debrief

Three Whats

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What opportunities might you have to do this same thing in the “real world”?

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Consult 4 Kids Lesson Plans

4th -5th Grade Subtraction of Decimals

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$33.45 - 15.4 =$	$18.5 - 9.5 =$	$14.9 - 3.2 =$	$1.978 - 1.682 =$

Consult 4 Kids Lesson Plans4th -5th Grade Subtraction of Decimals

2.4	2.2	5	3.3
1.8	84.2	2.2	3.5
283.9	8.421	.833	7.582
8.2	72.3	4.4	24.2
19.499	.169	32.294	23.78
18.05	9	11.7	.296

Consult 4 Kids Lesson Plans

Component	Math
Grade Level:	4 th & 5 th Grades
Lesson Title:	Multiplying Decimals
Focus:	Fractions

Materials:

White boards Vocabulary Notebooks
 Crayolas Cards
 Activities at the end of this lesson plan Socks (use as erasers)

Opening

State the objective

Today we are going to practice using our math vocabulary and skills with decimals.

Gain prior knowledge by asking students the following questions

What do you know about multiplying decimals? What are the steps you would take to complete this task? After you have finished multiplying, what is the final step you will take to correctly place the decimal point? What is the strategy you will use?

Content (the “Meat”)

Problem of the Day

Ben needs to buy balloons for the dance. He can get them at the Party Store and pay \$4.00 for 10 balloons. At the Balloons Galore Store he can buy 3 for a \$1.50. At which store can he get the best deal? How do you know?

Fact Practice

Target

1. Divide students into trios
2. Each trio needs a deck of cards without face cards and jokers
3. Place the cards face up in a TicTac Toe Grid
4. Turn up a 10th card which will be to the side and becomes the target number (aces count as 1)
5. Each player makes an equation with some or all of the numbers in the grid to equal the target number. Students may add, subtract, multiply or divide
6. Each card may be used only one time in the equation
7. As the cards are being picked up, the player must say the equation aloud—for example if the target card is 10, then I could say $5 \times 2 = 10$, and pick up the 5 and the 2.
8. After one player finishes his/her turn, then the cards taken are replaced by cards from the remaining deck
9. Player with the most cards at the end of the game win

***Activity → Teachable Moment(s) throughout**

During the lesson check in with students repeatedly.
 Check in about what is happening and what they are thinking.
 Take advantage of any teachable moments.
 Stop the class and focus on a student’s key learning or understanding. Ask open-ended questions to determine what the rest of the group is thinking.
 When possible, engage students in a “teach to learn” opportunity and have the student become the teacher.

Consult 4 Kids Lesson Plans

Math Vocabulary

Word for Today: to the right of decimal point

Description: The digits to the right of the decimal point represent tenths, hundredths, thousandths, ten-thousandths, hundred-thousandths, millionths and so on. In a multiplication problem, count the digits to the right of the decimal point in both factors and then in the product, begin on the right and count that many places to the left and then place the decimal point. Understanding the steps of multiplying decimals is important.

Students should review their Vocabulary Notebook and have an accurate and informative entry for the term "mixed number".

Vocabulary Notebook Sample:

<p>New Word</p> <p style="text-align: center;">right of decimal point</p>	<p>My Description</p> <p style="text-align: center;">digits to the right of the decimal are less than a whole</p>
<p>Personal Connection</p> <p style="text-align: center;">He will give her \$.75.</p>	<p>Drawing</p> <div style="text-align: center;"> </div>

It is important to review academic math vocabulary often throughout the day.

Complete the Vocabulary notebook for each word.

When possible, have students experience the word (Ex. 4 students creating a right angle, multiple students acting out an equation).

Vocabulary Notebooks can be made from 1/2 of a composition book.

Activity

Multiplication of Decimals

Multiplying decimals is exactly like multiplying in other numbers. You write the problems vertically and multiply beginning with the bottom right factor and continuing. You do not need to align the decimal points. When you have a product, you return to the two factors and count the number of digits to the right of the decimal in both factors. When you have that number, you begin counting right to left in the product and when you have counted the correct number of spaces, you place the decimal point in the product. For example, in the problem:

$$\begin{array}{r}
 3.24 \\
 \times .245 \\
 \hline
 1620 \\
 12960 \\
 \hline
 64800 \\
 \hline
 .79380
 \end{array}$$

Once you have multiplied by each of the digits and found the total, you then count the number of digits to the right. In the first factor: 3.24 there are two digits to the right. In the second factor there are 3 numbers to the right. This is a total of 4 numbers. Beginning with the 0 on the right, count five spaces to the left and drop in the decimal point.

Do several of these problems on the board with the students, bringing them up and having them work through the problem, focusing on the process of multiplication and then determining where the decimal point belongs when the product has been determined.

Multiplying Decimals

Directions:

Focus on having young people "compete" in pairs or small groups. Once a game is mastered you can utilize it in the "When Homework Is Complete" center.

Consult 4 Kids Lesson Plans

- | | |
|---|--|
| <ol style="list-style-type: none"> 1. Divide students into pairs. 2. Give each pair a set of Multiplying Decimals cards and a game board. 3. Shuffle the cards and put them between the students. 4. Player 1 draws a card, completes the problem, locates the answer on the game board and marks it with a token. 5. Player 2 continues in the same way. 6. Play is over when all answers are covered. | |
|---|--|

Closing

Review

Say:

- Please recap what we did today.
- Did we achieve our objectives?

Debrief

Three Whats

Ask the following three what questions:

What was your key learning for the day?

What opportunities might you have to do this same thing in the “real world”?

What advice would you give to a “new” student getting ready to do this activity?

Reflection (Confirm, Tweak, Aha!)

1. Ask students to think about what they did today in math.
2. Ask them to comment on what they did today was something they already knew how to do. (Confirmation)
3. Ask them to comment on what they did today that was like something they had done before except in one particular way which was new to them. (Tweak)
4. Ask them to comment on something (if anything) they have learned today that was brand new to them.

Consult 4 Kids Lesson Plans

4th -5th Grade Multiplication of Decimals

$\begin{array}{r} 5.2 \\ \times 1.8 \\ \hline \end{array}$	$\begin{array}{r} 10.5 \\ \times 6.6 \\ \hline \end{array}$	$\begin{array}{r} 2.8 \\ \times 9.9 \\ \hline \end{array}$	$\begin{array}{r} 2.2 \\ \times 4.4 \\ \hline \end{array}$
$\begin{array}{r} .12 \\ \times 3.7 \\ \hline \end{array}$	$\begin{array}{r} 5.2 \\ \times .21 \\ \hline \end{array}$	$\begin{array}{r} 1.3 \\ \times 1 \\ \hline \end{array}$	$\begin{array}{r} 7.1 \\ \times .25 \\ \hline \end{array}$
$\begin{array}{r} 7.54 \\ \times 2.77 \\ \hline \end{array}$	$\begin{array}{r} 6.4 \\ \times 2.5 \\ \hline \end{array}$	$\begin{array}{r} 16.2 \\ \times 1.1 \\ \hline \end{array}$	$\begin{array}{r} 2 \\ \times 2.1 \\ \hline \end{array}$
$5.4 \times 1.3 =$	$6.6 \times 1.5 =$	$4.44 \times .01 =$	$.34 \times .12 =$
$45.5 \times 4.6 =$	$6.1 \times 2.5 =$	$5.6 \times 7.4 =$	$33.1 \times .8 =$
$3.7 \times 9.4 =$	$62.5 \times .74 =$	$.089 \times 4.03 =$	$3.5 \times 87 =$

Consult 4 Kids Lesson Plans

4th -5th Grade Multiplication of Decimals Answer Key

9.36	69.3	27.72	9.68
.444	1.092	1.3	1.775
20.8858	16	17.82	4.2
7.02	9.9	.0444	.0408
209.3	15.25	40.88	26.48
34.78	46.250	.35867	304.5

Consult 4 Kids Lesson Plans

Component	Math
Grade Level:	4 th & 5 th Grades
Lesson Title:	Multiplying Decimals 2
Focus:	Decimals

Materials:		
White boards	Vocabulary Notebooks	Activity at the end of the lesson plan
Crayolas	two, 12-sided dice for each pair	
Product Hunt Work Sheet	Sock (for erasers)	

Opening

State the objective

Today we are going to practice using our math vocabulary and skills with decimals.

Gain prior knowledge by asking students the following questions

What do you know about multiplying decimals? What are the steps you would take to complete this task? After you have finished multiplying, what is the final step you will take to correctly place the decimal point? What is the strategy you will use?

Content (the “Meat”)

Problem of the Day	<p>*Activity → Teachable Moment(s) throughout</p> <p>During the lesson check in with students repeatedly. Check in about what is happening and what they are thinking.</p> <p>Take advantage of any teachable moments.</p> <p>Stop the class and focus on a student’s key learning or understanding. Ask open-ended questions to determine what the rest of the group is thinking.</p> <p>When possible, engage students in a “teach to learn” opportunity and have the student become the teacher.</p>
<p>If you cut a pan of brownies into 12 pieces and 8 of the pieces were eaten, what fraction of the brownies was not eaten? How do you know?</p>	
Fact Practice	
<p>Product Hunt</p> <ol style="list-style-type: none"> 1. Divide students into pairs 2. Each pair needs a Product Hunt sheet (attached to this lesson plans) 3. Player rolls two, 12-sided dice. 4. Player multiplies the two numbers. 5. If the product is not yet covered, then player may cover the product. 6. Next player repeats steps 1-3. 7. Winner is determined by who has the most numbers covered. 	

Consult 4 Kids Lesson Plans

Math Vocabulary

Word for Today: to the right of decimal point

Description: The digits to the right of the decimal point represent tenths, hundredths, thousandths, ten-thousandths, hundred-thousandths, millionths and so on. In a multiplication problem, count the digits to the right of the decimal point in both factors and then in the product, begin on the right and count that many places to the left and then place the decimal point. Understanding the steps of multiplying decimals is important.

Students should review their Vocabulary Notebook and have an accurate and informative entry for the term "right of decimal point".

Vocabulary Notebook Sample:

<p>New Word</p> <p style="text-align: center;">right of decimal point</p>	<p>My Description</p> <p style="text-align: center;">digits to the right of the decimal are less than a whole</p>
<p>Personal Connection</p> <p style="text-align: center;">He will give her \$.75.</p>	<p>Drawing</p> <div style="text-align: center;"> </div>

It is important to review academic math vocabulary often throughout the day

Complete the Vocabulary notebook for each word.

When possible, have students experience the word (Ex. 4 students creating a right angle, multiple students acting out an equation).

Vocabulary Notebooks can be made from 1/2 of a composition book.

Activity

Multiplication of Decimals

Multiplying decimals is exactly like multiplying in other numbers. You write the problems vertically and multiply beginning with the bottom right factor and continuing. You do not need to align the decimal points. When you have a product, you return to the two factors and count the number of digits to the right of the decimal in both factors. When you have that number, you begin counting right to left in the product and when you have counted the correct number of spaces, you place the decimal point in the product. For example, in the problem:

$$\begin{array}{r}
 3.24 \\
 \times .245 \\
 \hline
 1620 \\
 12960 \\
 \hline
 64800 \\
 \hline
 .79380
 \end{array}$$

Once you have multiplied by each of the digits and found the total, you then count the number of digits to the right. In the first factor: 3.24 there are two digits to the right. In the second factor there are 3 numbers to the right. This is a total of 4 numbers. Beginning with the 0 on the right, count five spaces to the left and drop in the decimal point.

Do several of these problems on the board with the students, bringing them up and having them work through the problem, focusing on the process of multiplication and then determining where the decimal point belongs when the product has been determined.

Multiplying Decimals

Directions:

Focus on having young people "compete" in pairs or small groups. Once a game is mastered you can utilize it in the "When Homework Is Complete" center.

Consult 4 Kids Lesson Plans

- | | |
|---|--|
| <ol style="list-style-type: none"> 1. Divide students into pairs. 2. Give each pair a set of Multiplying Decimals cards and a game board. 3. Shuffle the cards and put them between the students. 4. Player 1 draws a card, completes the problem, locates the answer on the game board and marks it with a token. 5. Player 2 continues in the same way. 6. Play is over when all answers are covered. | |
|---|--|

Closing

Review

Say:

- Please recap what we did today.
- Did we achieve our objectives?

Debrief

Three Whats

Ask the following three what questions:

What was your key learning for the day?

What opportunities might you have to do this same thing in the “real world”?

What advice would you give to a “new” student getting ready to do this activity?

Reflection (Confirm, Tweak, Aha!)

1. Ask students to think about what they did today in math.
2. Ask them to comment on what they did today was something they already knew how to do. (Confirmation)
3. Ask them to comment on what they did today that was like something they had done before except in one particular way which was new to them. (Tweak)
4. Ask them to comment on something (if anything) they have learned today that was brand new to them.

Product Hunt

48	20	81	3	45	27
1	24	108	77	7	40
120	72	96	8	18	60
14	144	70	22	15	11
33	35	66	132	63	16
12	30	28	110	100	49
6	36	21	121	90	2
84	5	44	25	99	10
32	9	56	88	4	11
24	50	55	54	42	80

Consult 4 Kids Lesson Plans

4th -5th Grade Multiplication of Decimals

$\begin{array}{r} 5.2 \\ \times 1.8 \\ \hline \end{array}$	$\begin{array}{r} 10.5 \\ \times 6.6 \\ \hline \end{array}$	$\begin{array}{r} 2.8 \\ \times 9.9 \\ \hline \end{array}$	$\begin{array}{r} 2.2 \\ \times 4.4 \\ \hline \end{array}$
$\begin{array}{r} .12 \\ \times 3.7 \\ \hline \end{array}$	$\begin{array}{r} 5.2 \\ \times .21 \\ \hline \end{array}$	$\begin{array}{r} 1.3 \\ \times 1 \\ \hline \end{array}$	$\begin{array}{r} 7.1 \\ \times .25 \\ \hline \end{array}$
$\begin{array}{r} 7.54 \\ \times 2.77 \\ \hline \end{array}$	$\begin{array}{r} 6.4 \\ \times 2.5 \\ \hline \end{array}$	$\begin{array}{r} 16.2 \\ \times 1.1 \\ \hline \end{array}$	$\begin{array}{r} 2 \\ \times 2.1 \\ \hline \end{array}$
$5.4 \times 1.3 =$	$6.6 \times 1.5 =$	$4.44 \times .01 =$	$.34 \times .12 =$
$45.5 \times 4.6 =$	$6.1 \times 2.5 =$	$5.6 \times 7.4 =$	$33.1 \times .8 =$
$3.7 \times 9.4 =$	$62.5 \times .74 =$	$.089 \times 4.03 =$	$3.5 \times 87 =$

Consult 4 Kids Lesson Plans

4th -5th Grade Multiplication of Decimals Answer Key

9.36	69.3	27.72	9.68
.444	1.092	1.3	1.775
20.8858	16	17.82	4.2
7.02	9.9	.0444	.0408
209.3	15.25	40.88	26.48
34.78	46.250	.35867	304.5

Consult 4 Kids Lesson Plans

Component	Math
Grade Level:	4 th & 5 th Grades
Lesson Title:	Division of Decimals
Focus:	Decimals

Materials:	
White boards	Vocabulary Notebooks
Crayolas	Decks of cards
Activity at the end of the lesson plan	Socks (use as erasers)

Opening
State the objective
Today we are going to practice using our math vocabulary and skills in working with decimals.
Gain prior knowledge by asking students the following questions
What do you know about decimals? What does a decimal indicate about the numbers to the right of it? What about those to the left? When do you commonly use decimals? If you are reading a number with a decimal point aloud, what do you say when you get to the decimal point?

Content (the “Meat”)	
<p style="text-align: center;">Problem of the Day</p> <p>Look at the word below. Write a fraction that shows the number of vowels in the word. Write a fraction that shows the number of consonants. How do you know that the answer is correct?</p> <p style="text-align: center; font-size: 1.2em;">superficial</p>	<p>*Activity → Teachable Moment(s) throughout</p> <p>During the lesson check in with students repeatedly. Check in about what is happening and what they are thinking. Take advantage of any teachable moments. Stop the class and focus on a student’s key learning or understanding. Ask open-ended questions to determine what the rest of the group is thinking. When possible, engage students in a “teach to learn” opportunity and have the student become the teacher.</p>
<p style="text-align: center;">Fact Practice</p> <p style="text-align: center;">Draw!</p> <ol style="list-style-type: none"> 1. Divide students into pairs and give each pair a deck of cards 2. Remove the face cards and jokers from the deck of cards. 3. Shuffle the deck. 4. Decide who will go first. 5. First player draws two cards. 6. Student multiplies the cards. 7. Student writes his/her problem on the white board, writing a complete number sentence. 8. Students take turns drawing and creating problems. 	
<p style="text-align: center;">Math Vocabulary</p> <p>Word of the day: decimal in the divisor</p> <p>When you are dividing with decimals you must be sure that there is NO decimal in the divisor.</p>	<p>It is important to review academic math vocabulary often throughout the day.</p>

Consult 4 Kids Lesson Plans

In the problem $40 \div 5$, the 5 is the divisor. If there is a decimal in the divisor, you must move it to the right by however many places you have to the right. For example, if the divisor is .25, you would need to move the decimal two points to the right so it becomes 25. When you move a decimal point in the divisor, you **MUST** move the same number of places to the right in the dividend. If the dividend is 4.25, then it would become 425. If the dividend was 42 without any decimal you would add two zeros so you could then move the decimal two places to the right. This is permissible.

Students should enter the term in Vocabulary Notebook.

Vocabulary Notebook Sample:

<p>New Word</p> <p style="text-align: center;">decimal in the divisor</p>	<p>My Description</p> <p style="text-align: center;">move the decimal out of the divisor, matching the move in the dividend</p>
<p>Personal Connection</p> <p style="text-align: center;">I will move the decimal two places in both the divisor and the dividend.</p>	<p>Drawing</p> <p style="text-align: center;">.45 becomes 45.—divisor 42. becomes 4200. In the dividend</p>

Complete the Vocabulary notebook for each word.

When possible, have students experience the word (Ex. 4 students creating a right angle, multiple students acting out an equation).

Vocabulary Notebooks can be made from $\frac{1}{2}$ of a composition book.

Activity

Division of Decimals

Dividing decimals requires that you write the problems in traditional form:

$$5 \overline{)40.5}$$

Since there is no decimal point in the divisor, you simply divide normally (you would find that the quotient is 81). You then move the decimal straight up, in this case the answer becomes 8.1. If there was a decimal point in the divisor, it would be important for you to remove it by moving it to the right, and then doing the exact same number of moves inside of the dividend.

$$.5 \overline{)40.5}$$

becomes

$$5 \overline{)405.}$$

and the answer would become 81. What this answer is telling you is that there are 81 $\frac{1}{2}$ s in 40.5.

Do several of these problems on the board with the students, bringing them up and having them work through the problem, focusing on the process of division and then determining if they should move any decimal in the divisor. If there is a decimal in the dividend, move it straight up.

Division With Decimals

Directions:

1. Divide students into pairs.
2. Give each pair a set of Division with Decimals cards and a game board.
3. Shuffle the cards and put them between the students.
4. Player 1 draws a card, completes the problem, locates the answer on the game board

Focus on having young people “compete” in pairs or small groups. Once a game is mastered you can utilize it in the “When Homework Is Complete” center.

Consult 4 Kids Lesson Plans

- and marks it with a token.
5. Player 2 continues in the same way.
 6. Play is over when all answers are covered.

Closing

Review

Say:

- Please recap what we did today.
- Did we achieve our objectives?

Debrief

Three Whats

Ask the following three what questions:

What was your key learning for the day?

What opportunities might you have to do this same thing in the “real world”?

What advice would you give to a “new” student getting ready to do this activity?

Reflection (Confirm, Tweak, Aha!)

1. Ask students to think about what they did today in math.
2. Ask them to comment on what they did today was something they already knew how to do. (Confirmation)
3. Ask them to comment on what they did today that was like something they had done before except in one particular way which was new to them. (Tweak)
4. Ask them to comment on something (if anything) they have learned today that was brand new to them.

Consult 4 Kids Lesson Plans

4th -5th Grade Division of Decimals

$5.481 \div 6 =$	$30.24 \div 36 =$	$57.96 \div 63 =$	$166.88 \div 56$
$73.84 \div 8 =$	$579.6 \div 92 =$	$48.24 \div 72 =$	$5,577.6 \div 83 =$
$3.402 \div 7 =$	$15.75 \div 45 =$	$266.8 \div 58 =$	$32.496 \div 48 =$
$212.4 \div 6 =$	$407.4 \div 97 =$	$23.04 \div 64 =$	$64 \div .8 =$
$100 \div .25 =$	$7.93 \div 6.1 =$	$35 \div .5 =$	$48 \div 1.2 =$
$42.4 \div 5.3 =$	$64 \div .4 =$	$4.9 \div .7 =$	$15.2 \div .19 =$

Consult 4 Kids Lesson Plans

4th – 5th Grade Division of Decimals Answers

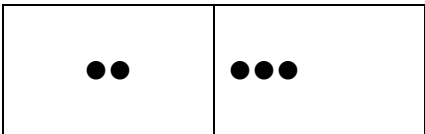
.903	.84	.92	2.98
9.23	6.3	.67	67.2
.486	.35	4.6	.677
35.4	4.2	.36	80
400	1.3	70	40
8	160	7	80

Consult 4 Kids Lesson Plans

Component:	Math
Grade Level:	4 th & 5 th Grades
Lesson Title:	Division of Decimals 2
Focus:	Decimals

Materials:	
White boards	Vocabulary Notebooks
Crayolas	Double 9 Dominoes
Activity at the end of the lesson plan	Socks (use for erasers)

Opening
State the objective
Today we are going to practice using our math vocabulary and skills with decimals.
Gain prior knowledge by asking students the following questions
What do you know about decimals? What does a decimal indicate about the numbers to the right of it? What about those to the left? When do you commonly use decimals? If you are reading a number with a decimal point aloud, what do you say when you get to the decimal point?

Content (the "Meat")	
Problem of the Day	<p>*Activity → Teachable Moment(s) throughout</p> <p>During the lesson check in with students repeatedly. Check in about what is happening and what they are thinking. Take advantage of any teachable moments. Stop the class and focus on a student's key learning or understanding. Ask open-ended questions to determine what the rest of the group is thinking. When possible, engage students in a "teach to learn" opportunity and have the student become the teacher.</p>
<p>Lori will use 20 beads to make a bracelet. If 8 of the beads are gold, 3 are purple, and 5 are orange, how many of the beads are blue? Write a fraction to show each color of bead.</p>	
Fact Practice Spots and Dots	
<p>There is a master of Double 9 Dominos attached to this lesson plan. You will need 1 full set for each pair of students in your class. It is recommended that you duplicate on card stock and if possible, laminate for use again in the future.</p> <p>Players sit across from each other. Dominoes are between them, face (or spots) down. Each student draws a domino and writes the multiplication problem on their white board, multiplying the numbers represented by the spots Example: Domino drawn is</p>	
	
<p>Multiplication: $2 \times 3 = 6$</p>	

Consult 4 Kids Lesson Plans

Math Vocabulary

Word of the day: decimal in the divisor

When you are dividing with decimals you must be sure that there is **NO** decimal in the divisor. In the problem $40 \div 5$, the 5 is the divisor. If there is a decimal in the divisor, you must move it to the right by however many places you have to the right. For example, if the divisor is .25, you would need to move the decimal two points to the right so it becomes 25. When you move a decimal point in the divisor, you **MUST** move the same number of places to the right in the dividend. If the dividend is 4.25, then it would become 425. If the dividend was 42 without any decimal you would add two zeros so you could then move the decimal two places to the right. This is permissible.

Students should enter the term in Vocabulary Notebook.

Vocabulary Notebook Sample:

New Word <div style="text-align: center;">decimal in the divisor</div>	My Description <div style="text-align: center;">move the decimal out of the divisor, matching the move in the dividend</div>
Personal Connection <div style="text-align: center;">I will move the decimal two places in both the divisor and the dividend.</div>	Drawing <div style="text-align: center;">.45 becomes 45.—divisor 42. becomes 4200. In the dividend</div>

It is important to review academic math vocabulary often throughout the day.

Complete the Vocabulary notebook for each word.

When possible, have students experience the word (Ex. 4 students creating a right angle, multiple students acting out an equation).

Vocabulary Notebooks can be made from $\frac{1}{2}$ of a composition book.

Activity Decimals

Division of Decimals

Dividing decimals requires that you write the problems in traditional form:

$$5 \overline{)40.5}$$

Since there is no decimal point in the divisor, you simply divide normally (you would find that the quotient is 81). You then move the decimal straight up, in this case the answer becomes 8.1. If there was a decimal point in the divisor, it would be important for you to remove it by moving it to the right, and then doing the exact same number of moves inside of the dividend.

$$.5 \overline{)40.5}$$

becomes

$$5 \overline{)405.}$$

and the answer would become 81. What this answer is telling you is that there are 81 $\frac{1}{2}$ s in 40.5.

Do several of these problems on the board with the students, bringing them up and having them work through the problem, focusing on the process of division and then determining if they should move any decimal in the divisor. If there is a decimal in the dividend, move it straight up.

Focus on having young people “compete” in pairs or small groups. Once a game is mastered you can utilize it in the “When Homework Is Complete” center.

Consult 4 Kids Lesson Plans

Division With Decimals

Directions:

1. Divide students into pairs.
2. Give each pair a set of Division with Decimals cards and a game board.
3. Shuffle the cards and put them between the students.
4. Player 1 draws a card, completes the problem, locates the answer on the game board and marks it with a token.
5. Player 2 continues in the same way.
6. Play is over when all answers are covered.

Closing

Review

Say:

- Please recap what we did today.
- Did we achieve our objectives?

Debrief

Three Whats

Ask the following three what questions:

What was your key learning for the day?

What opportunities might you have to do this same thing in the “real world”?

What advice would you give to a “new” student getting ready to do this activity?

Reflection (Confirm, Tweak, Aha!)

1. Ask students to think about what they did today in math.
2. Ask them to comment on what they did today was something they already knew how to do. (Confirmation)
3. Ask them to comment on what they did today that was like something they had done before except in one particular way which was new to them. (Tweak)
4. Ask them to comment on something (if anything) they have learned today that was brand new to them.



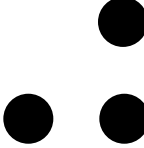
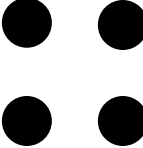
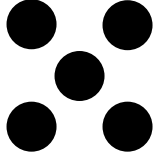
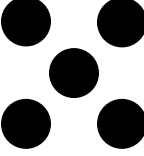
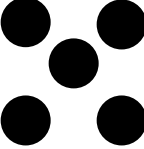
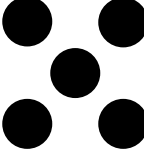
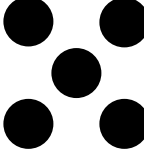
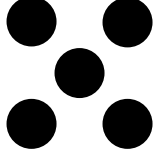
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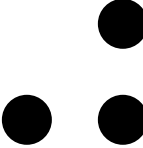
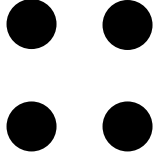
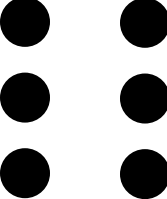
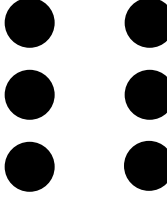
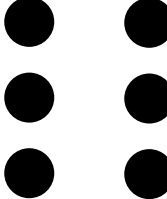
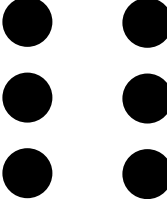
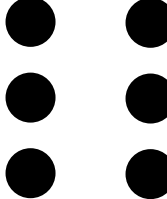
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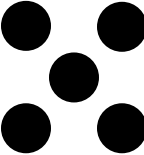
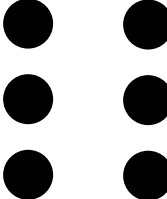


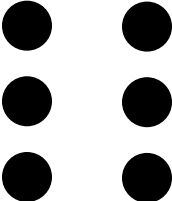
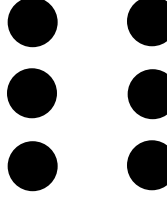
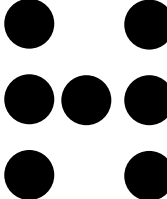
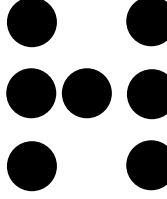
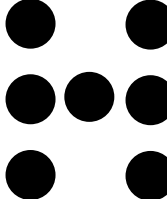
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Consult 4 Kids Lesson Plans

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Do not use				
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4th -5th Grade Division of Decimals

$5.481 \div 6 =$	$30.24 \div 36 =$	$57.96 \div 63 =$	$166.88 \div 56$
$73.84 \div 8 =$	$579.6 \div 92 =$	$48.24 \div 72 =$	$5,577.6 \div 83 =$
$3.402 \div 7 =$	$15.75 \div 45 =$	$266.8 \div 58 =$	$32.496 \div 48 =$
$212.4 \div 6 =$	$407.4 \div 97 =$	$23.04 \div 64 =$	$64 \div .8 =$
$100 \div .25 =$	$7.93 \div 6.1 =$	$35 \div .5 =$	$48 \div 1.2 =$
$42.4 \div 5.3 =$	$64 \div .4 =$	$4.9 \div .7 =$	$15.2 \div .19 =$

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4th – 5th Grade Division of Decimals Answers

.903	.84	.92	2.98
9.23	6.3	.67	67.2
.486	.35	4.6	.677
35.4	4.2	.36	80
400	1.3	70	40
8	160	7	80

Consult 4 Kids Lesson Plans

Component	Math
Grade Level:	4 th & 5 th Grades
Lesson Title:	Fractions, Decimals, and Percentages
Focus:	Number

Materials:		
White boards	Vocabulary Notebooks	Activity at end of the lesson plan
Crayolas	6-sided dice; 12-sided dice	
Decks of cards	Socks (use as erasers)	

Opening

State the objective

Today we are going to practice using our math vocabulary and skills in working with decimals.

Gain prior knowledge by asking students the following questions

It is important that students can learn to translate fractions, decimals, and percentages into one another. These types of entities have a relationship. How would you change a fraction into a decimal? How would you change a decimal into a fraction? How would you change a decimal into a percentage? How would you change a percentage into a decimal?

Content (the "Meat")

Problem of the Day	<p>*Activity → Teachable Moment(s) throughout</p> <p>During the lesson check in with students repeatedly. Check in about what is happening and what they are thinking. Take advantage of any teachable moments. Stop the class and focus on a student's key learning or understanding. Ask open-ended questions to determine what the rest of the group is thinking. When possible, engage students in a "teach to learn" opportunity and have the student become the teacher.</p>
<p>Write 3 more fractions that are an equivalent for $\frac{3}{4}$. Tell how you know your answer is correct.</p>	
Fact Practice	<p>It is important to review academic math vocabulary often throughout the day.</p>
<p style="text-align: center;">Fact Family</p> <p>A Fact Family is 3 numbers which have a relationship in multiplication and division. For example, the number 9, 4, and 36 have a particular relationship in math. This family has four members: $9 \times 4 = 36$ $4 \times 9 = 36$ $36 \div 4 = 9$ $36 \div 9 = 4$ Students should roll 2 dice and create a Fact Family by writing the members of the family on the white board. Student should roll a total of 5 times, creating 5 Fact Families</p>	
Math Vocabulary	
<p>Word for Today: equivalent decimals, fractions, percentages</p> <p>Description: Decimals, fractions, and percentages can be equivalent. $\frac{1}{4}$, .25, and 25% are</p>	


Consult 4 Kids Lesson Plans

all equivalent. This makes $\frac{1}{8}$, .125, and 12.5% equivalent as well. To find the decimal equivalent of a fraction divide the numerator by the denominator. To change a decimal into a percentage remember that the % sign relates everything to 100%. To change the decimal, you move 2 spaces to the right and add the percent sign. There are so basic equivalencies that you should memorize. They are commonly used interchangeably.

In the vocabulary notebook, students should create the normal entry and also the common equivalencies should be listed:

- $\frac{1}{4}$, .25, 25%
- $\frac{1}{2}$.5, 50%
- $\frac{3}{4}$, .75, 75%
- $\frac{1}{8}$.125, 12.5%
- $\frac{3}{8}$, .375, 37.5%
- $\frac{5}{8}$, .625, 62.5%
- $\frac{7}{8}$, .875, 87.5%
- $\frac{1}{3}$, .33, 33.3%
- $\frac{2}{3}$, .67, 66.7%
- $\frac{1}{5}$.2, 20%
- $\frac{2}{5}$, .4 40%
- $\frac{3}{5}$.6, 60%
- $\frac{4}{5}$.8, 80%

Vocabulary Notebook Sample:

New Word $\frac{1}{2}$.5 50%	My Description equaling the same fractional part
Personal Connection He got 80% on his spelling test.	Drawing 

Complete the Vocabulary notebook for each word.

When possible, have students experience the word (Ex. 4 students creating a right angle, multiple students acting out an equation).

Vocabulary Notebooks can be made from $\frac{1}{2}$ of a composition book.

Activity Decimals

Decimals, Fractions, and Percentages

Decimals, fractions and percentages can all represent the same amount. For example, $\frac{1}{4}$, .25 and 25% are of equal value, just like $\frac{1}{2}$, .5 and 50%. While all of these equivalents can be easily calculated (to translate a fraction into a decimal divide the numerator by the denominator, to translate the decimal into a percent, move the decimal two places to the right and follow by a % sign).

Today, students are going to play Tic Tac Toe by using equivalents to score or block the opponents play. On the Tic Tac Toe board, player can only play the equivalent that labels the column:

Fraction	Decimal	Percent
----------	---------	---------

Be sure to duplicate the Equivalents cards on two different colors of paper to determine which player has laid down which card.

Play several games on the chalk board with students, until they are comfortable playing the game.

Focus on having young people “compete” in pairs or small groups. Once a game is mastered you can utilize it in the “When Homework Is Complete” center.

Consult 4 Kids Lesson Plans

Tic Tac Equivalents

Directions:

1. Divide students into pairs.
2. Give each pair a Tic Tac Equivalent board and two sets of Equivalent cards (duplicated on different colors of paper)
3. Players each take one color of Equivalent Cards.
4. Players each arrange their cards to be in equivalent trios.
5. Play begins like Tic Tac Toe, following the description above.
6. Player who gets three color cards in a row (vertically, horizontally, or diagonally) wins.

Closing

Review

Say:

- Please recap what we did today.
- Did we achieve our objectives?

Debrief

Three Whats

Ask the following three what questions:

What was your key learning for the day?

What opportunities might you have to do this same thing in the “real world”?

What advice would you give to a “new” student getting ready to do this activity?

Reflection (Confirm, Tweak, Aha!)

1. Ask students to think about what they did today in math.
2. Ask them to comment on what they did today was something they already knew how to do. (Confirmation)
3. Ask them to comment on what they did today that was like something they had done before except in one particular way which was new to them. (Tweak)
4. Ask them to comment on something (if anything) they have learned today that was brand new to them.

Consult 4 Kids Lesson Plans

4th-5th Grade Tic Tac Equivalent

Fraction	Decimal	Percent

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 $\frac{1}{4}$

.25

25%

 $\frac{1}{2}$

.5

50%

 $\frac{3}{4}$

.75

75%

 $\frac{1}{8}$

.125

12.5%

 $\frac{1}{3}$

.33

33%

 $\frac{2}{3}$

.67

67%

Consult 4 Kids Lesson Plans

 $\frac{3}{8}$ **.375****37.5%** $\frac{5}{8}$ **.625****62.5%** $\frac{7}{8}$ **.875****87.5%** **$\frac{1}{10}$** **.1****10%** **$\frac{2}{5}$** **.2****20%** **$\frac{3}{5}$** **.6****60%**

4/5

.8

80%

1/6

.167

16.7%

5/6

.833

83.3%

Consult 4 Kids Lesson Plans

Component	Math
Grade Level:	4 th & 5 th Grades
Lesson Title:	Fractions, Decimals, Percentages 2
Focus:	Number

Materials:

White boards	Vocabulary Notebooks
Crayolas	Decks of cards
Activity at the end of the lesson plan	Socks (use as erasers)

Opening

State the objective

Today we are going to practice using our math vocabulary and skills in working with decimals.

Gain prior knowledge by asking students the following questions

It is important that students can learn to translate fractions, decimals, and percentages into one another. These types of entities have a relationship. How would you change a fraction into a decimal? How would you change a decimal into a fraction? How would you change a decimal into a percentage? How would you change a percentage into a decimal?

Content (the "Meat")

Problem of the Day

John bought a dozen donuts for \$5.40. He sold the donuts at school for a total of \$7.80. How much money did he make on each donut? How do you know?

Fact Practice Multiples

Multiplication facts are learned by recognizing the multiples of any given number. In this practice you will be determining the multiples of randomly generated numbers. You will need a chart and crayolas (150 chart).

1. Roll one or two dice (if you roll two add the numbers together to determine the factor in the fact practice)
2. Mark all multiples of the number and then pass off to the next person.
3. Player may mark the same number.

*Activity → Teachable Moment(s) throughout

During the lesson check in with students repeatedly.

Check in about what is happening and what they are thinking.

Take advantage of any teachable moments.

Stop the class and focus on a student's key learning or understanding. Ask open-ended questions to determine what the rest of the group is thinking.

When possible, engage students in a "teach to learn" opportunity and have the student become the teacher.

Math Vocabulary

Word for Today: equivalent decimals, fractions, percentages

Description: Decimals, fractions, and percentages can be equivalent. $\frac{1}{4}$, .25, and 25% are

It is important to review academic math vocabulary often throughout the day.


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Consult 4 Kids Lesson Plans

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4. Players each arrange their cards to be in equivalent trios.
5. Play begins like Tic Tac Toe, following the description above.
6. Player who gets three color cards in a row (vertically, horizontally, or diagonally) wins.

Closing

Review

Say:

- Please recap what we did today.
- Did we achieve our objectives?

Debrief

Three Whats

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What advice would you give to a “new” student getting ready to do this activity?

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4. Ask them to comment on something (if anything) they have learned today that was brand new to them.

Consult 4 Kids Lesson Plans

Fact Practice—Multiples

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100
101	102	103	104	105	106	107	108	109	110
111	112	113	114	115	116	117	118	119	120
121	122	123	124	125	126	127	128	129	130
131	132	133	134	135	136	137	138	139	140
141	142	143	144	145	146	147	148	149	150

Consult 4 Kids Lesson Plans

4th-5th Grade Tic Tac Equivalent

Fraction	Decimal	Percent

Consult 4 Kids Lesson Plans

 $\frac{1}{4}$

.25

25%

 $\frac{1}{2}$

.5

50%

 $\frac{3}{4}$

.75

75%

 $\frac{1}{8}$

.125

12.5%

 $\frac{1}{3}$

.33

33%

 $\frac{2}{3}$

.67

67%

Consult 4 Kids Lesson Plans

$\frac{3}{8}$

.375

37.5%

$\frac{5}{8}$

.625

62.5%

$\frac{7}{8}$

.875

87.5%

$\frac{1}{10}$

.1

10%

$\frac{2}{5}$

.2

20%

$\frac{3}{5}$

.6

60%

Consult 4 Kids Lesson Plans

$4/5$

.8

80%

$1/6$

.167

16.7%

$5/6$

.833

83.3%

Consult 4 Kids Lesson Plans

Component	Math
Grade Level:	4 th & 5 th Grades
Lesson Title:	Student Activity Choice
Focus:	Review

Materials:

Game Boards for games below.

Opening

State the objective

Today we are going to have fun playing games that we learned this week.

Content (the “Meat”)

Activity

Today is a review lesson. Students should choose from the following activities:

- Addition With Decimals**
- Subtraction With Decimals**
- Multiplication With Decimals**
- Division With Decimals**
- Tic Tac Equivalents**

Closing

Review

Say:

- Please recap what we did today.
- Did we achieve our objectives?

Reflection (Confirm, Tweak, Aha!)

1. Ask students to think about what they did today in math.
2. Ask them to comment on what they did today was something they already knew how to do. (Confirmation)
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