

MATH WORKSHOP

DECIMALS



PRINTABLE & DIGITAL

4TH GRADE

CCSS aligned vocabulary cards for use during the lessons, your word walls, and so much more. These are also included in the digital version so you can project them on your board.

[illegible]

A suggested unit overview and pacing is provided, though it's not necessary to follow it. This is to help make planning easy on you. It is also set up so you can just click on the lesson and it'll take you directly to it.

Pre-tests and Post-tests are provided so that you can determine what your students know and don't know. This also helps determine growth after the unit is complete.

[illegible]

Detailed and thorough lesson plans to help you work through the workshop model. It includes the "I Can" statement, CCSS, vocabulary, materials used, intervention ideas, and extensions.

DIGITAL VERSION

This unit includes a digital version. You can assign parts of the resource to your students whether you are at school or distance learning.

PLACE VALUE AND DECIMALS

A number that uses a decimal point followed by digits that show a value smaller than one.

As we move right, each place becomes 10x smaller.

millions	hundreds of thousands	tens of thousands	thousands	hundreds	tens	ones	tenths	hundredths
10x	10x	10x	10x	10x	10x	10x	10x	10x

As we move left, each place is 10x larger.

millions	hundreds of thousands	tens of thousands	thousands	hundreds	tens	ones	tenths	hundredths
10x	10x	10x	10x	10x	10x	10x	10x	10x

DECIMAL POINT

The dot placed after the whole number representing units in a decimal fraction.

1. **1.73**

one-dollar and 7 dimes, 3 pennies
one dollar 73 pennies

WORD PROBLEM SUPER STARS

UNDERSTAND

What is the problem asking you to do?
What's important in the problem?
What's not important in the problem?

PLAN

to estimate?
to do more than one step?
to add? Subtract?
to multiply? Divide?

answer?

Does your answer make sense?
Is it reasonable?

RELATING MONEY TO DECIMALS

1 quarter = 0.25
4 quarters = 1.00
1 dime = 0.10
10 dimes = 1.00
1 penny = 0.01
100 pennies = 1.00

1 dollar = 1.00

1 nickel = 0.05
20 nickels = 1.00

1 dime = 0.10
10 dimes = 1.00

1 penny = 0.01
100 pennies = 1.00

one-dollar and 7 dimes, 3 pennies
one dollar 73 pennies

one and 7 tenths, 3 hundredths
one and 73 hundredths

ACTIVITIES

Hands-on, concrete activities that use manipulatives. Activities are created based on research and best practices. Students are engaged and enjoy math more.

PIZZA, PIZZA!

Directions: Look at the pizza boxes below and color in the charts based on the order summary. Then enter the symbol (<, =, >) in the order summary.

A	0.09 < 0.9	1.05 > 0.25
B	0.04 < 0.37	6.03 < 6.2
C	0.70 < 0.7	8.09 < 10
D	0.35 < 0.6	1.078 < 0.7
E	0.8 < 0.9	1.08 < 0.5

Decimal Gardens

Directions: Find the money amounts and write them. If more is missing, use the symbols (<, =, >) for less than, equal to, or greater than.

1. **0.09**

2. **0.04**

3. **0.70**

4. **0.35**

5. **0.8**

6. **0.9**

7. **1.05**

8. **6.03**

9. **8.09**

10. **1.078**

11. **1.08**

A Mountain of Decimals

Directions: Find the decimal point on the line. Then write the number in the box to help you determine the answer to the problem.

1. **0.09**

2. **0.04**

3. **0.70**

4. **0.35**

5. **0.8**

6. **0.9**

7. **1.05**

8. **6.03**

9. **8.09**

10. **1.078**

11. **1.08**

CANDY EXPRESS

The local candy store just hired someone to help run the register, but the person wrote all the orders in fractions. Can you help us figure out the totals? Type the answer on the line of each receipt. **Best** determine how many pennies each one would be and then add them up!

CANDY EXPRESS	CANDY EXPRESS	CANDY EXPRESS	CANDY EXPRESS	CANDY EXPRESS
Bubble Gum $\frac{1}{10}$	Gummies $\frac{1}{10}$	Lollipops $\frac{1}{10}$	Sour $\frac{1}{10}$	Cotton Candy $\frac{1}{10}$
Hard Candy $\frac{1}{10}$	Chocolate $\frac{1}{10}$	Marshmallows $\frac{1}{10}$	Caramels $\frac{1}{10}$	Licorice $\frac{1}{10}$
TOTAL: $\frac{1}{10}$	TOTAL: $\frac{1}{10}$	TOTAL: $\frac{1}{10}$	TOTAL: $\frac{1}{10}$	TOTAL: $\frac{1}{10}$

SIZING UP DECIMALS

Using your square, answer the questions below.

Below is a square. This square represents a whole (or one). Using the line tool, partition this square into 10 equal pieces.

After you partitioned the square into 10 equal pieces, what are the pieces called? **tenths**

Click here to roll a die, what number did you get? Drag highlighter tape over that many pieces.

Type the number of colored pieces you have in decimal form. **0.4**

Type the number of uncolored pieces you have in decimal form. **0.6**

Now return to the square above. Partition the square again into 10 more pieces going the opposite direction.

After you partitioned the square into 10 more equal pieces using the line tool, what are the pieces called? **hundredths**

How many colored pieces do you now have? **40**

Type the number of colored pieces you have in decimal form. **0.4**

Type the number of uncolored pieces you have in decimal form. **0.6**

ANCHOR CHARTS

Detailed anchor charts that break things down for your students to help them understand important concepts.

A BEACH GETAWAY

Directions: Place your token on START. On your turn, roll the dice and move your token. If you land on a beach, you win! If you land on a shark, you lose! If you land on a treasure chest, you win! If you land on a shark, you lose! If you land on a treasure chest, you win!

ISLAND HOPPING

Directions: Place your token on START. On your turn, roll the dice and move your token. If you land on a beach, you win! If you land on a shark, you lose! If you land on a treasure chest, you win! If you land on a shark, you lose! If you land on a treasure chest, you win!

The Money

Directions: Place your token on START. On your turn, roll the dice and move your token. If you land on a beach, you win! If you land on a shark, you lose! If you land on a treasure chest, you win! If you land on a shark, you lose! If you land on a treasure chest, you win!

PRACTICE WORKSHEETS

Worksheets are provided to give students a chance to practice the newly learned skills and to work their way to mastery. This also provides you the opportunity to check for understanding. Answer keys are included.

INCLUDES COLOR AND B/W VERSIONS!