



Name _____

5th Grade Modified Math Remote Learning Packet

Week 1

September 21st – September 25th



Dear Educator,

My signature is proof that I have reviewed my scholar's work and supported him to the best of my ability to complete all assignments.

(Parent Signature)

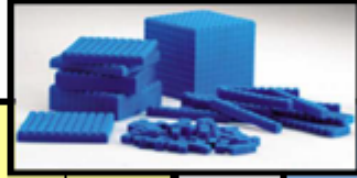
(Date)

Parents please note that all academic are also available on our website at www.brighterchoice.org under the heading "Remote Learning." All academic packet assignments are mandatory and must be completed by all scholars.

Anchor Charts and Tools

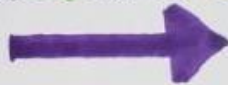
PLACE VALUE CHART

(One) Billions	Hundred Millions	Ten Millions	(One) Millions	Hundred Thousands	Ten Thousands	(One) Thousands	Hundreds	Tens	Ones	.	Tenths	Hundredths	Thousandths
----------------	------------------	--------------	----------------	-------------------	---------------	-----------------	----------	------	------	---	--------	------------	-------------



Multiplying by Multiples of 10

★ Decimal moves...



$\times 10 = 1$ space to the RIGHT

$\times 100 = 2$ spaces to the RIGHT

$\times 1,000 = 3$ spaces to the RIGHT

Dividing by Multiples of 10

★ Decimal moves...



$\div 10 = 1$ space to the LEFT

$\div 100 = 2$ spaces to the LEFT

$\div 1,000 = 3$ spaces to the LEFT

Multiplying and Dividing by 10, 100, 1000

- When we multiply the number gets bigger so move the decimal to the RIGHT by how many 0's.

EXAMPLE: $25.32 \times 10 = 253.2$

$25.32 \times 100 = 2532$

$25.32 \times 1000 = 25320$

When we divide the number gets smaller so we move the decimal to the LEFT by how many 0's.


EXAMPLE: $25.32 \div 10 = 2.532$

$25.32 \div 100 = 0.2532$

$25.32 \div 1000 = 0.02532$

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Whenever you see the following symbol  please go onto Elight.com, log in, and find the assignment to send back to me for a grade.

Name: _____

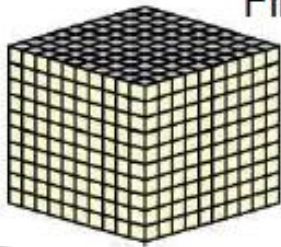
Date: 9/21/20

BCCS-Boys

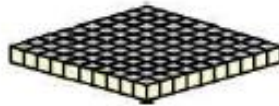
College: _____

Do Now: Use the reference key at the top to complete the following problems

Find the value of each group of base ten blocks.



= 1000



= 100

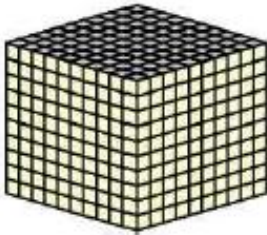


= 10

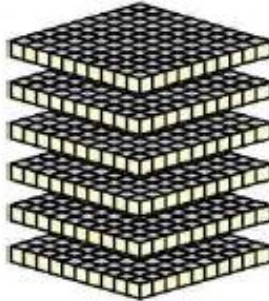


= 1

1)



Thousands



Hundreds



Tens



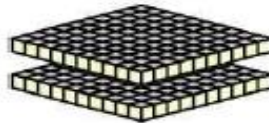
Ones

Total

2)



Thousands



Hundreds



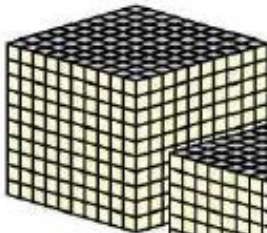
Tens



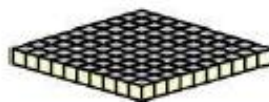
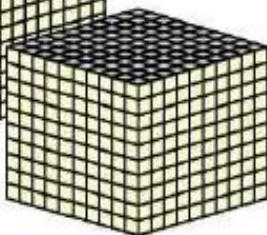
Ones

Total

3)



Thousands



Hundreds



Tens

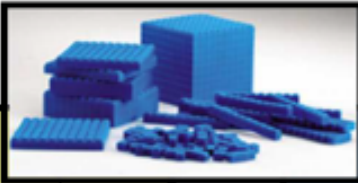


Ones

Total

Input Activity

PLACE VALUE CHART

<div><div>PLACE VALUE CHART</div><div></div></div>													
(One) Billions	Hundred Millions	Ten Millions	(One) Millions	Hundred Thousands	Ten Thousands	(One) Thousands	Hundreds	Tens	Ones	.	<u>Tenths</u>	<u>Hundredths</u>	<u>Thousandths</u>

Key Terms:

Decimal _____

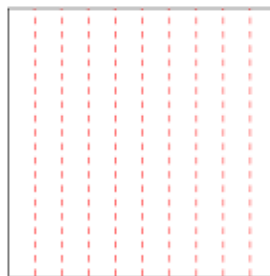
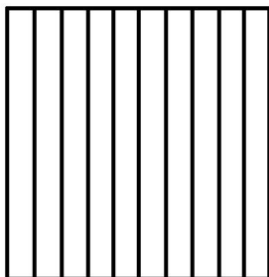
Decimal Point _____

Tenths _____

And _____

Concept Development - Tenths

A whole is the entire amount shaded. Anything less than a whole is a decimal. A tenth is one part of 10 equal parts.

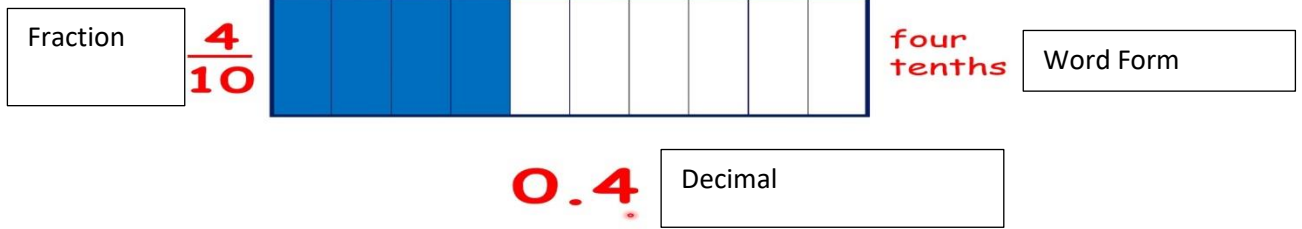


1
one

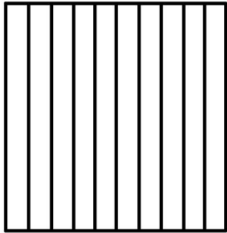


0.1
one tenth


 0.01
 one hundredth



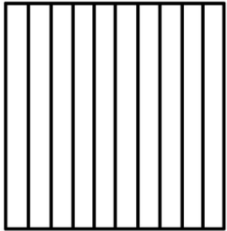
Shade 7 parts.



Decimal: _____ Fraction: _____

Word Form: _____

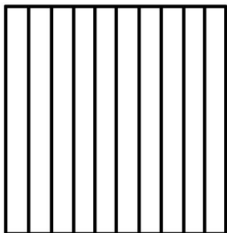
Shade 3 parts.



Decimal: _____ Fraction: _____

Word Form: _____

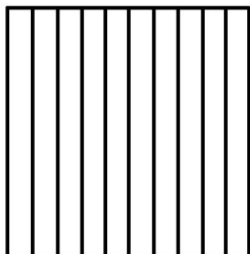
Shade 5 parts.



Decimal: _____ Fraction: _____

Word Form: _____

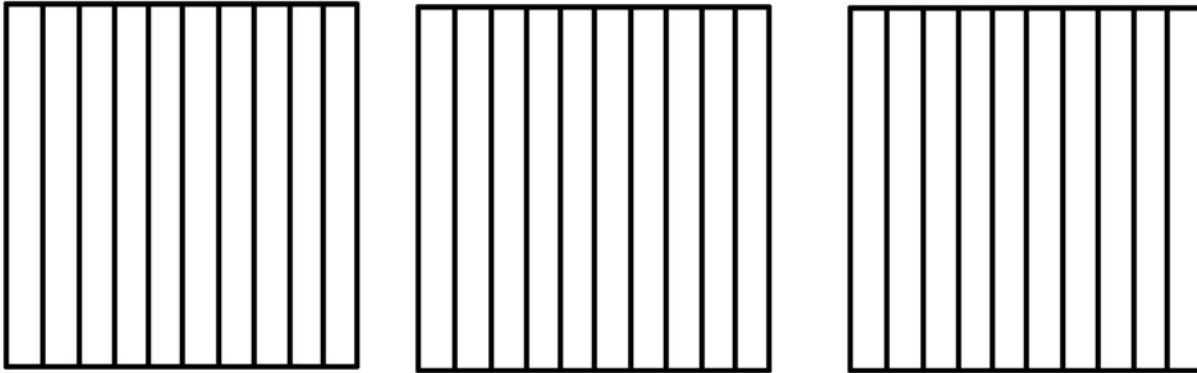
Shade 9 parts.



Decimal: _____ Fraction: _____

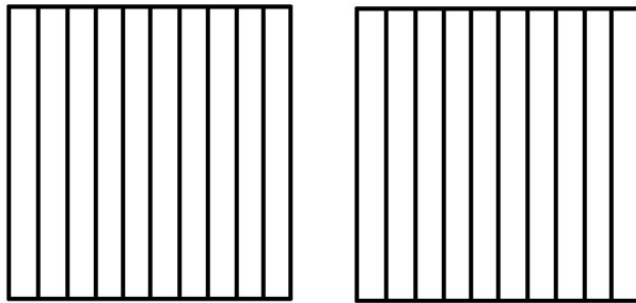
Word Form: _____

Shade 2.7



Word Form: _____ Fraction: _____

Shade 1.6



Word Form: _____ Fraction: _____

Change the word form to standard form.

1. two tenths _____
2. three and eight tenths _____
3. seven and three tenths _____
4. one and one tenth _____
4. eight tenths _____
5. two and four tenths _____
6. twenty-seven and six tenths _____

Change the standard form to word form.(Write out number names:
one, two, three)

6.3 _____

2.8 _____

45.9 _____

21.3 _____

147.2 _____

Change the standard form to expanded form.(+)

157.3 _____

2,784.6 _____

56,809.4 _____

Problem Set**Change the word form to standard form.(24.5)**

twenty-three and two tenths _____

seven hundred sixteen and three tenths _____

**Change the standard form to word form. (Write out number names:
one, two, three)**

127.4 _____

67.2 _____

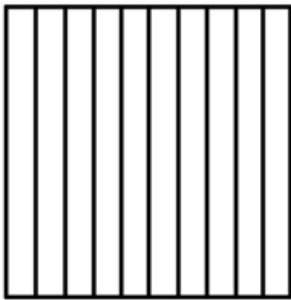
Change the standard form to expanded form.(+)

278.1 _____

22,093.6 _____

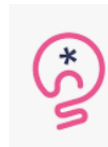
Application Problem

Annie the Ant marched eight tenths of a mile in the ant parade. What decimal describes how far Annie walked? Shade in the model to show your thinking.



Decimal: _____

Fraction: _____

Exit Ticket

Match the word form to the standard form.

_____76.8

A. three and five tenths

_____7.8

B. seventy-six and eight tenths

_____13.5

C. seven and eight tenths

_____3.5

D. thirteen and five tenths

Change the standard form to expanded form.

156.8 _____

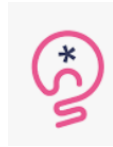
9,803.4 _____

Name: _____

Date: 9/21/20

BCCS-Boys

College: _____

**Homework**

Write the shaded portion as a decimal, fraction and word form

Model	Decimal	Fraction	Word Form
	0.2	$\frac{2}{10}$	2 tenths

Name: _____

Date: 9/22/20

BCCS-Boys

College: _____

Do Now**Write the word form.** (Write out number names: one, two, three)

56.7 _____

127.3 _____

Write the expanded form.(+)

541.9 _____

238.5 _____

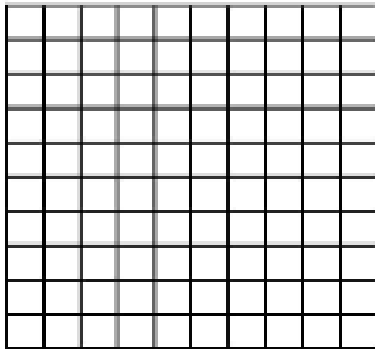
Write the standard form.(24.7)

sixty-seven and seven tenths _____

one hundred fifty-three and six tenths _____

Input Activity**Key Terms:**

Hundredths _____

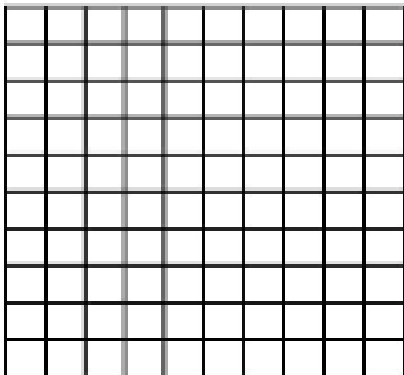
**Concept Development**A hundredth is one part of 100 equal parts.

Shade 28 parts.

Decimal: _____ Fraction: _____

Word Form: _____

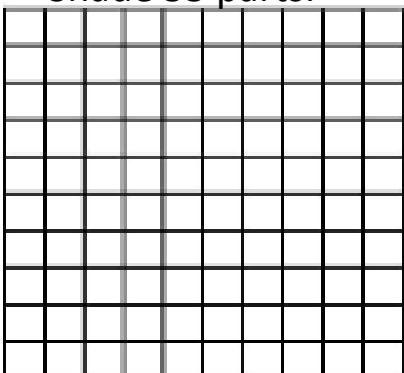
Shade 73 parts.



Decimal: _____ Fraction: _____

Word Form: _____

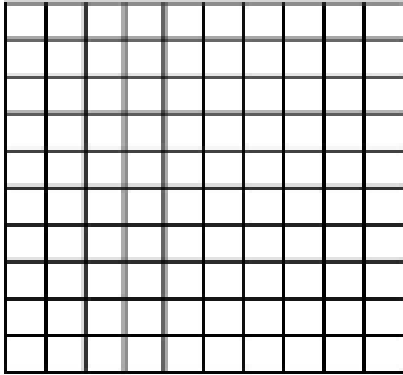
Shade 55 parts.



Decimal: _____ Fraction: _____

Word Form: _____

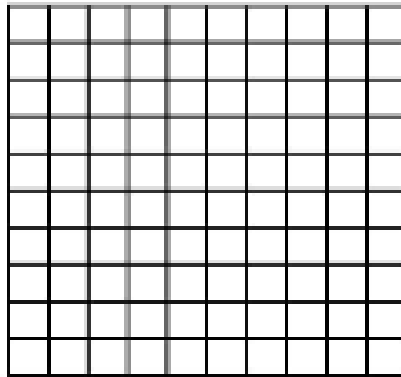
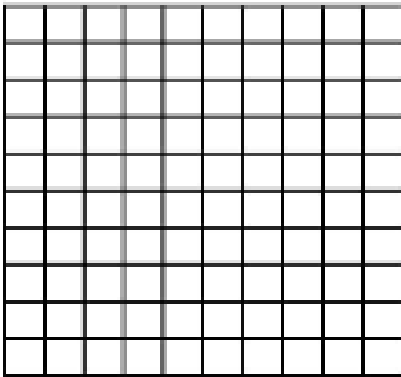
Shade 89 parts.



Decimal: _____ Fraction: _____

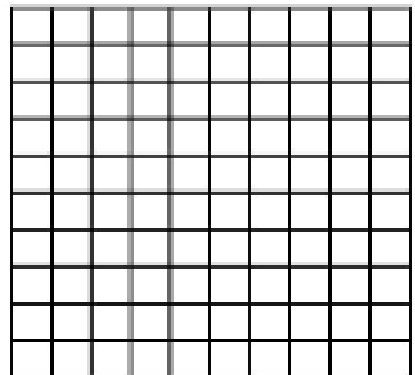
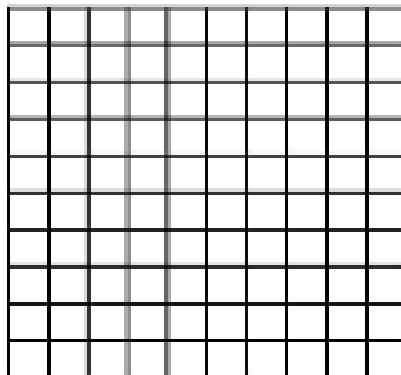
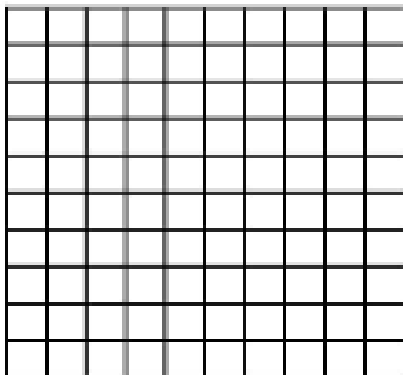
Word Form: _____

Shade 1.18



Word Form: _____ Decimal: _____

Shade 2.46



Word Form: _____ Decimal: _____

Change the word form to standard form.(24.7)

1. thirty-two hundredths _____
2. sixty-three and eight hundredths _____
3. seventy-six and thirty-three hundredths _____
4. one and fourteen hundredths _____
5. two hundred nine and eight hundredths _____
6. fifty-seven and fourteen hundredths _____

Change the standard form to word form. (Write out number names:
one, two, three)

16.26 _____

45.92 _____

201.35 _____

14.29 _____

Change the standard form to expanded form.(+)

141.13 _____

763.26 _____

809.34 _____

Problem Set

Change the word form to standard form.(24.7)

eighty and twenty-two hundredths _____

seven hundred nine and fifty-six hundredths _____

**Change the standard form to word form. (Write out number names:
one, two, three)**

52.87 _____

90.56 _____

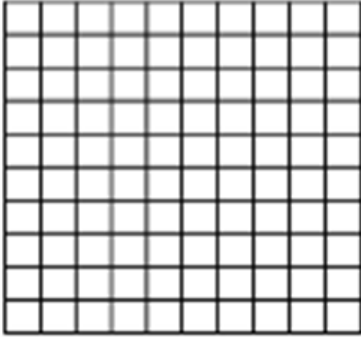
Change the standard form to expanded form.(+)

102.12 _____

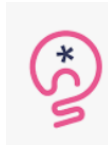
287.76 _____

Application Problem:

In a bag of 100 balloons, there are 35 red balloons. What fraction and decimal of the total balloons are red?



Decimal: _____ Fraction: _____

Exit Ticket

Write the word form next to the standard form. (Write out number names: one, two, three)

156.28 _____

7.18 _____

Change the standard form to expanded form.(+)

112.88 _____

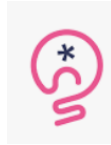
887.14 _____

Name: _____

Date: 9/22/20

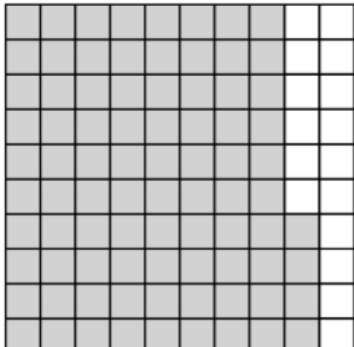
BCCS-Boys

College: _____



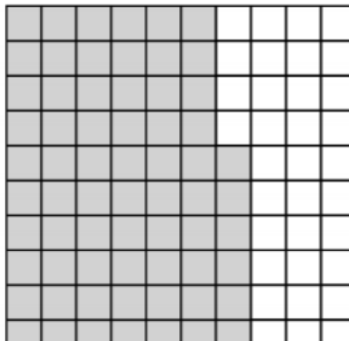
Homework

All the squares below have been separated into 100 equal parts. Each part is $\frac{1}{100}$. For all the squares, write the shaded portion as a fraction and decimal.



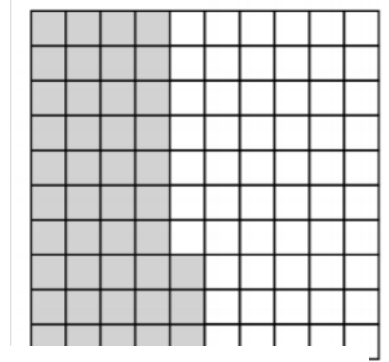
Fraction: _____

Decimal: _____



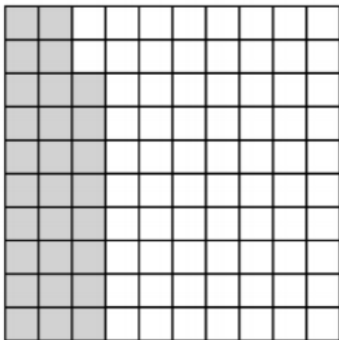
Fraction: _____

Decimal: _____



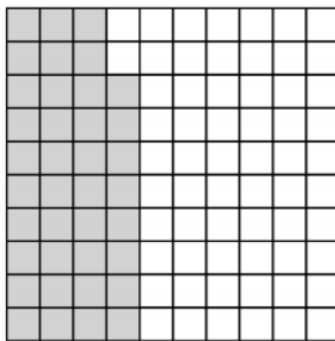
Fraction: _____

Decimal: _____



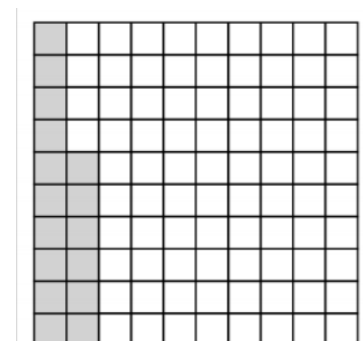
Fraction: _____

Decimal: _____



Fraction: _____

Decimal: _____



Fraction: _____

Decimal: _____

Name: _____

Date: 9/23/20

BCCS-Boys

College: _____

Do Now

Write the word form. (Write out number names: one, two, three)

23.75 _____

Write the expanded form.(+)

187.19 _____

Write the standard form.(24.7)

two hundred five and twenty-six hundredths _____

Input Activity:

Let's think about numbers...

Each place value is _____ times greater than the place value to its right. That means that the place value to the left of a number will always be _____ than a place to the right.

Thousands	Hundreds	Tens	Ones		Tenths	Hundredths	Thousandths
				●			

Today we will be multiplying decimals by multiples of 10:

Let's list the multiples of 10 that we will be multiplying by today:

The number of zeros will _____ the number to the _____ that many spaces. The decimal _____ moves and is not considered a _____.

Remember...

If you multiply by 10, you will move your number to the left _____ space.

If you multiply by 100, you will move your number to the left _____ spaces.

If you multiply by 1,000 you will move your number to the left _____ spaces.

Problem 1:

$$0.2 \times 10$$

1. Copy the problem in the top row of the chart.
3. Move the number to the left the amount of zeros that are in the multiple of 10 in the bottom row of the chart. Draw arrows to show your movement from top to bottom numbers. This is your answer
4. Re-write your answer on the line below the chart.

Thousands	Hundreds	Tens	Ones		Tenths	Hundredths	Thousandths

Problem 2:

$$0.04 \times 10 = \underline{\hspace{2cm}}$$

Thousands	Hundreds	Tens	Ones		Tenths	Hundredths	Thousandths

Problem 3:

$$0.04 \times 1,000 = \underline{\hspace{2cm}}$$

Thousands	Hundreds	Tens	Ones		Tenths	Hundredths	Thousandths

Multiply decimals by 10, 100, and 1,000.

Steps:

Example:

$$0.5 \times 100$$

Problem 4:

$$2.43 \times 10$$

Problem 5:

$$2.43 \times 100$$

Problem 6:

$$2.43 \times 1,000$$

Problem 7: $3.452 \times 10 =$ _____

Thousands	Hundreds	Tens	Ones		Tenths	Hundredths	Thousandths

Problem 8:

0.124×100

Problem 9:

$7.6 \times 1,000$

Problem 10: $0.26 \times 100 =$ _____

Thousands	Hundreds	Tens	Ones		Tenths	Hundredths	Thousandths

Problem Set

a. $5.67 \times 10 =$ _____

Thousands	Hundreds	Tens	Ones		Tenths	Hundredths	Thousandths

b. $5.67 \times 100 =$ _____

Thousands	Hundreds	Tens	Ones		Tenths	Hundredths	Thousandths

c. $5.67 \times 1,000 =$ _____

Thousands	Hundreds	Tens	Ones		Tenths	Hundredths	Thousandths

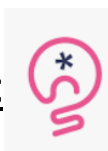
d. 2.13×100

f. 90.34×10

Application Problem:

On average, a human hair grows 1.25 centimeters per month. At this rate, how long would a strand of hair grow in 10 months.

Exit Ticket



a. $6.581 \times 10 =$ _____

Thousands	Hundreds	Tens	Ones		Tenths	Hundredths	Thousandths
				●			

b. $7.68 \times 100 =$ _____

Thousands	Hundreds	Tens	Ones		Tenths	Hundredths	Thousandths
				●			

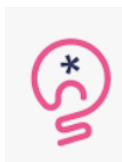
c. $.486 \times 10 =$ _____ d. $3.3 \times 1,000 =$ _____

Name: _____

Date: 9/23/20

BCCS-Boys

College: _____



Homework

Use the place value chart and arrows to show how the value of each digit changes.

a. $4.582 \times 10 =$ _____

Thousands	Hundreds	Tens	Ones		Tenths	Hundredths	Thousandths

b. $9.254 \times 1,000 =$ _____

Thousands	Hundreds	Tens	Ones		Tenths	Hundredths	Thousandths

Multiply the decimal by the multiple of 10.

c. $1.55 \times 100 =$ _____

d. $9.456 \times 1,000 =$ _____

Name: _____

Date: 9/24/20

BCCS-Boys

College: _____

Do Now

Use the place value chart and arrows to show how the value of each digit changes.(< >)

a. $5.748 \times 10 =$ _____

Thousands	Hundreds	Tens	Ones		Tenths	Hundredths	Thousandths
				●			

b. $3.421 \times 100 =$ _____

Thousands	Hundreds	Tens	Ones		Tenths	Hundredths	Thousandths
				●			

Multiply each decimal by the multiple of 10.

c. 56.8×100 _____

d. $18.4 \times 1,000 =$ _____

Input Activity

Yesterday in math class we multiplied by multiples of 10. What did that mean? Explain. Today we will be dividing by multiples of 10. What do you think that would mean?

Each place value is _____ times greater than the place value to its **RIGHT**. That means that the place value to the **RIGHT** of a number will always be _____ than a place to the **LEFT**.

Let's build the place value chart that we used yesterday:

Thousands	Hundreds	Tens	Ones		Tenths	Hundredths	Thousandths

Today we will be dividing decimals by multiples of 10:

Let's list the multiples of 10 that we will be dividing by today: _____

The number of zeros will _____ the number to the _____ that many spaces. The decimal _____ move and is not considered a _____.

Remember...

If you divide by 10, you will move your number to the right _____ space.

If you divide by 100, you will move your number to the right _____ spaces.

If you divide by 1,000 you will move your number to the right _____ spaces.

Invisible Decimals:

Every number has an _____. The invisible decimal will always be after the number.

Ex: 45


The number is written _____

Problem 1:

- Copy the problem in the top row of the chart.
- Move the number to the left the amount of zeros that are in the multiple of 10 in the bottom row of the chart. Draw arrows to show your movement from top to bottom numbers. This is your answer
- Re-write your answer on the line.

$6 \div 10 =$ _____

Dividing with Decimals



Move decimal to left

Number of zeros = Number of place you move

Examples:

* $87.6 / 100 = 0.876$

Answer: 0.876

* $5.0 / 1,000 = 0.005$

Answer: 0.005

1,000	100	10	1	•	$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$
				•			
				•			
				•			

Problem 2:

$6 \div 100 =$ _____

1,000	100	10	1	•	$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$
				•			
				•			
				•			

Problem 3:

$$6 \div 1,000 = \underline{\hspace{2cm}}$$

1,000	100	10	1		$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$
				●			
				●			
				●			

Dividing decimals by 10, 100, and 1,000

Steps:

Example:

$$0.7 \div 10$$

Problem 4:

$$0.7 \div 100$$

Problem 5:

$$0.7 \div 1,000$$

Problem 6:

$$745 \div 10 = \underline{\hspace{2cm}}$$

1,000	100	10	1		$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$
				●			
				●			
				●			

Problem 7:

$$745 \div 100 = \underline{\hspace{2cm}}$$

1,000	100	10	1		$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$
				●			
				●			
				●			

Problem 8:

$$24.7 \div 100$$

Problem 9:

$$4.05 \div 1,000$$

Problem Set

$$345 \div 10 = \underline{\hspace{2cm}}$$

1,000	100	10	1		$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$
				●			
				●			
				●			

$$54.7 \div 1,000 = \underline{\hspace{2cm}}$$

1,000	100	10	1		$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$
				●			
				●			
				●			

$$8.95 \div 1,000 = \underline{\hspace{2cm}}$$

$$74.25 \div 100 = \underline{\hspace{2cm}}$$

Application Problem

Ten children ran a lemonade stand all summer. They made a total of \$485. If they split the money evenly, how much money will each child receive?

Exit Ticket



Use the place value chart and arrows to show how the value of each digit changes.

$$6.581 \div 10 = \underline{\hspace{2cm}}$$

1,000	100	10	1	.	$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$

$$7.68 \div 100 = \underline{\hspace{2cm}}$$

1,000	100	10	1	.	$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$

Divide the decimal by the multiple of 10.

$$0.486 \div 10 = \underline{\hspace{2cm}}$$

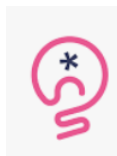
$$3.3 \div 1,000 = \underline{\hspace{2cm}}$$

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Date: 9/24/20

BCCS-Boys

College: _____



Homework

Use the place value chart and arrows to show how the value of each digit changes.

$$684 \div 1,000 = \underline{\hspace{2cm}}$$

1,000	100	10	1		$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$
				●			
				●			
				●			

$$925.4 \div 100 = \underline{\hspace{2cm}}$$

1,000	100	10	1		$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$
				●			
				●			
				●			

Divide the decimal by the multiple of 10.

$$1.55 \div 10 = \underline{\hspace{2cm}}$$

$$45.6 \div 1,000 = \underline{\hspace{2cm}}$$

Name: _____

Date: 9/25/20

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Do Now

Use the place value chart and arrows to show how the value of each digit changes.

d. $5.64 \div 10 =$ _____

Thousands	Hundreds	Tens	Ones		Tenths	Hundredths	Thousandths
				●			

e. $42.1 \div 100 =$ _____

Thousands	Hundreds	Tens	Ones		Tenths	Hundredths	Thousandths
				●			

Divide the decimal by the multiple of 10.

f. $427.5 \div 10 =$ _____ $122.6 \div 1,000 =$ _____

Input Activity

Multiplying and Dividing Decimals by Multiples of 10 Review

Multiplying Steps and Example:

Dividing Steps and Example:

Using a Place value Chart to Multiply Decimals by Multiples of 10:

$$4.57 \times 100$$

Thousands	Hundreds	Tens	Ones	●	Tenths	Hundredths	Thousandths

Using a Place value Chart to Divide Decimals by Multiples of 10:

$$16.32 \div 1,000$$

Thousands	Hundreds	Tens	Ones	●	Tenths	Hundredths	Thousandths

Problem 1:

$$367 \times 10$$

Thousands	Hundreds	Tens	Ones	●	Tenths	Hundredths	Thousandths

Problem 2:

$$156 \div 10$$

Problem 3:

$$4,367 \times 10$$

Problem 4:

$$16.5 \div 10$$

Thousands	Hundreds	Tens	Ones	●	Tenths	Hundredths	Thousandths

Problem 5:

$$0.7 \div 100$$

Thousands	Hundreds	Tens	Ones	●	Tenths	Hundredths	Thousandths

Problem 6:

$$0.05 \div 100$$

Problem 7:

$$215.6 \times 100$$

Problem 8:

$$45.89 \div 100$$

Thousands	Hundreds	Tens	Ones	●	Tenths	Hundredths	Thousandths

Problem 9:

$$3.7 \times 100$$

Problem 10:

$$21.8 \div 100$$

Thousands	Hundreds	Tens	Ones	●	Tenths	Hundredths	Thousandths

Problem 11:

$$0.482 \times 1,000$$

Problem 12:

$$542 \div 1,000$$

Thousands	Hundreds	Tens	Ones	●	Tenths	Hundredths	Thousandths

Problem Set

$$54,000 \div 10 = \underline{\hspace{2cm}}$$

$$8.7 \times 10 = \underline{\hspace{2cm}}$$

Thousands	Hundreds	Tens	Ones	●	Tenths	Hundredths	Thousandths

$$0.13 \times 10 = \underline{\hspace{2cm}}$$

$$403.1 \div 100 = \underline{\hspace{2cm}}$$

Thousands	Hundreds	Tens	Ones	●	Tenths	Hundredths	Thousandths

$$19.453 \times 10 = \underline{\hspace{2cm}}$$

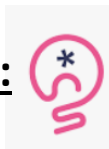
$$53.1 \div 100 = \underline{\hspace{2cm}}$$

Thousands	Hundreds	Tens	Ones	●	Tenths	Hundredths	Thousandths

Application Problem:

A single postage stamp costs \$0.44. How much would a roll of 1,000 stamps cost?

Exit Ticket:



Multiply or divide each decimal by the multiple of 10.

a. $455 \times 1,000 =$ _____

b. $455 \div 1,000 =$ _____

c. $3.21 \times 10 =$ _____

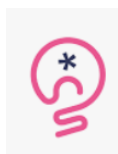
d. $363.2 \div 100 =$ _____

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Date: 9/25/20

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Homework:

Multiply or Divide each decimal by the power of 10.

$$96.54 \times 100 = \underline{\hspace{2cm}}$$

$$455.82 \div 1,000 = \underline{\hspace{2cm}}$$

$$143.5 \div 100 = \underline{\hspace{2cm}}$$

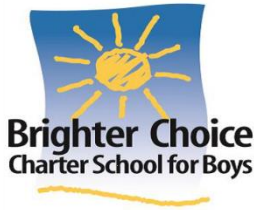
$$.0324 \times 1,000 = \underline{\hspace{2cm}}$$

$$0.786 \times 10 = \underline{\hspace{2cm}}$$

$$16.567 \div 100 = \underline{\hspace{2cm}}$$

$$910.45 \div 1,000 = \underline{\hspace{2cm}}$$

$$4.348 \times 10 = \underline{\hspace{2cm}}$$



Name _____

5th Grade Math Remote Learning Packet

Week 2

September 28th – October 2nd



Dear Educator,

My signature is proof that I have reviewed my scholar's work and supported him to the best of my ability to complete all assignments.

(Parent Signature)

(Date)

Parents please note that all academic are also available on our website at www.brighterchoice.org under the heading "Remote Learning." All academic packet assignments are mandatory and must be completed by all scholars.

Anchor Charts and Tools

Power	Expression	Standard Form
10^1	10	10
10^2	10×10	100
10^3	$10 \times 10 \times 10$	1,000
10^4	$10 \times 10 \times 10 \times 10$	10,000
10^5	$10 \times 10 \times 10 \times 10 \times 10$	100,000
10^6	$10 \times 10 \times 10 \times 10 \times 10 \times 10$	1,000,000
10^7	$10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10$	10,000,000
10^8	$10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10$	100,000,000
10^9	$10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10$	1,000,000,000

Compare and Order Decimals

Compare 1.3, 1.67, 0.52, .9

Make a place Value Chart!

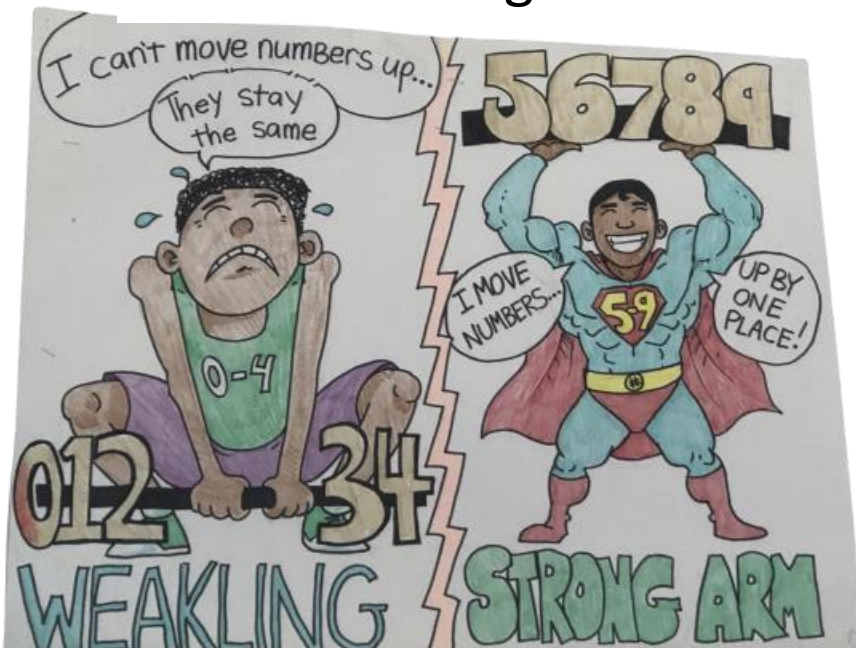
ones	.	tenths	hundredths
1	.	3	0
1	.	6	7
0	.	5	2
0	.	9	0

Put a Zero in all empty places

Least to greatest

0.52
0.90
1.30
1.67

Rounding



Rounding Decimals

Find your place. Look next door. Five or greater ↑ Just add one more.

All digits in front. Just stay the same.


All digits BEHIND, zero's their name!

Example: rounded to the tenths
 $38.25 \Rightarrow 38.3$
look next door 5 or more add 1 more find your place value

Example: round to the nearest whole #
 $19.71 \Rightarrow 20$
look next door 5 or more add 1 more find your place value

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Whenever you see the following symbol  please go onto Elight.com, log in, and find the assignment to send back to me for a grade.

Name: _____

Date: 9/28/20

BCCS-Boys

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Do Now

Solve.

g. $15.28 \div 100 =$ _____

h. $74.1 \times 10 =$ _____

i. $27.59 \div 100 =$ _____

j. $.9056 \times 1,000 =$ _____

Key Terms:

Exponent _____

Base _____


What are powers of 10???

- 1, 10, 100, 1000, 10000, etc. are all *powers of 10*
- These numbers can be written using exponents
- $1 = 10^0$
- $10 = 10^1$
- $100 = 10^2$
- $1000 = 10^3$
- $10000 = 10^4$

Input ActivityProblem 1:

	1,000,000	100,000	10,000	1,000	100	10
Repeated Multiplication						
Exponent						
Word Form						

Example 10^3 Repeated Multiplication : $10 \times 10 \times 10$

Product: 10000

Word Form: Ten to the third power is ten thousand

Problem 2:

$$10^5$$

Repeated Multiplication _____

Product: _____

Word Form: _____

Problem 3:

$$10^4$$

Repeated Multiplication _____

Product: _____

Word Form: _____

Problem 4:

$$10^8$$

Repeated Multiplication _____

Product: _____

Word Form: _____

Problem 5:

$$10^6$$

Repeated Multiplication _____

Product: _____

Word Form: _____

Problem 6:

$$3 \times 10^2$$

Problem 7:

$$3.4 \times 10^3$$

Problem 8:

$$4.021 \times 10^2$$

Problem 9:

$$700 \div 10^2$$

Problem Set

1. Write the following in exponential form (e.g., $100 = 10^2$).

a. $10,000 =$ _____

b. $1,000 =$ _____

c. $10 \times 10 =$ _____

d. $100 \times 100 =$ _____

e. $1,000,000 =$ _____

2. Write the following in standard form (e.g., $5 \times 10^2 = 500$).

a. $9 \times 10^3 =$ _____

b. $39 \times 10^4 =$ _____

c. $7,200 \div 10^2 =$ _____

d. $4.025 \times 10^3 =$ _____

e. $72.5 \div 10^2 =$ _____

f. $7.2 \div 10^2 =$ _____

Application Problem:

Jack and Kevin are creating a mosaic for art class by using fragments of broken tiles. They want the mosaic to have 10^2 sections. If each section requires 31.5 tiles, how many tiles will they need to complete the mosaic?

Exit Ticket

1. Write the following in exponential form and as a multiplication sentence using only 10 as a factor.

ex: $100 = 10^2 = 10 \times 10$

a. $1,000 = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

b. $10,000 = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

2. Write the following in standard form.

ex: $4 \times 10^2 = 400$

a. $3 \times 10^2 = \underline{\hspace{2cm}}$ b. $754.2 \div 10^2 = \underline{\hspace{2cm}}$

Name: _____ Date: 9/28/20

BCCS-Boys

College: _____

Homework**1. Write the following in exponential form.**Ex: $100 = 10^2$

a. $1000 =$ _____

b. $10 \times 10 =$ _____

c. $100,000 =$ _____

d. $100 \times 10 =$ _____

2. Write the following in standard form.Ex: $4 \times 10^2 = 400$

a. $4 \times 10^3 =$ _____

b. $9.4 \times 10^2 =$ _____

c. $5.32 \div 10^2 =$ _____

e. $6.72 \times 10^3 =$ _____

Name: _____ Date: 9/29/20

BCCS-Boys

College: _____

Do Now**Write the word form.**

23.57 _____

97.03 _____

Write the expanded form.

27.97 _____

105.59 _____

Write the standard form.

forty-seven and seventeen hundredths _____

one hundred sixteen and ninety hundredths _____

Key Term:

Thousandths _____

Key Terms Review:

Standard form - shows us the digits that we are using to represent that amount **Ex:** 65.4

Expanded form - shows how much each digit is worth and that the number is a total of those values added together.

Ex: $60 + 5 + 0.4$ **or** $60 + 5 + \frac{4}{10}$

Unit form - helps us see how many of each size unit are in the number

Ex: 6 tens 5 ones 4 tenths

Fractional form – shows the decimal as a fraction **Ex:** $65\frac{4}{10}$

Input Activity:**Problem 1****789 parts**

Standard: _____ Fraction: _____

Word Form: _____

Unit Form: _____

Expanded Form: _____

Problem 2**103 parts**

Standard: _____ Fraction: _____

Word Form: _____

Unit Form: _____

Expanded Form: _____

Problem 3:**15 wholes and 543 parts**

Standard: _____ Fraction: _____

Word Form: _____

Unit Form: _____

Expanded Form: _____

Problem 4:**Four hundred sixty-seven and eight hundred twenty-one thousandths**

Standard: _____ Fraction: _____

Unit Form: _____

Expanded Form: _____

Problem 5:***0.273*****Word Form:** _____**Fraction:** _____**Expanded Form:** _____**Unit Form:** _____**Problem 6:****$$\begin{array}{r} 289 \\ \hline 1000 \end{array}$$****Word Form:** _____**Expanded Form:** _____**Standard Form:** _____**Unit Form:** _____

Problem 7:

$$10 + 9 + 0.2 + 0.04 + 0.003$$

Word Form: _____

Standard Form: _____

Fractional Expanded Form: _____

Unit Form: _____

Problem 8:

7ones 8tenths 5hundredths 1thousandth

Standard Form: _____

Expanded Form: _____

Fractional Expanded Form: _____

Problem Set**Change each to standard form.**

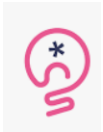
	Standard Form
forty-six thousandths	
$\frac{124}{1000}$	
nine and three hundred four hundred twenty-six thousandths	
$0.1 + 0.08 + 0.006$	
$10 + 6 + 0.7 + 0.08 + 0.003$	
7 ones, 1 tenth, 5 hundredths 2 thousandths	

Application Problem

At the beginning of a lesson, a piece of chalk is 4.875 inches long. At the end of the lesson, it is 3.125 inches long. Write the two amounts in **expanded form using fractions**.

a. At the beginning of the lesson:

b. At the end of the lesson:

**Exit Ticket**

1. Express thirty-six thousandths in standard form. _____

2. Express fifty-two thousandths as a fraction. _____

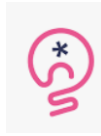
3. Express 14.495 in words. _____

4. Express 12.524 in expanded form. _____

Name: _____ Date: 9/29/20

BCCS-Boys

College: _____

Homework

1. Express as decimal numerals. The first one is done for you.

a. Five thousandths	0.005
b. Thirty-five thousandths	
c. Nine and two hundred thirty-five thousandths	
d. Eight hundred and five thousandths	
e. $\frac{8}{1000}$	
f. $\frac{28}{1000}$	
g. $7\frac{528}{1000}$	
h. $300\frac{502}{1000}$	

2. Express each of the following values in words.

a. 0.008 _____

b. 15.062 _____

c. 607.409 _____

Name: _____

Date: 9/30/20

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College: _____

Do Now**Express as decimal numerals.**

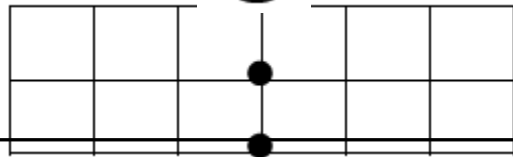
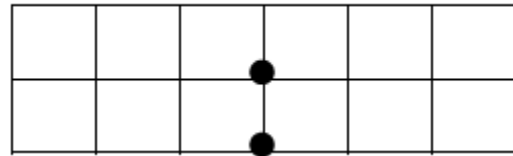
a. $27\frac{456}{1000}$ _____

b. $\frac{97}{1000}$ _____

c. two hundred twenty-three thousandths _____

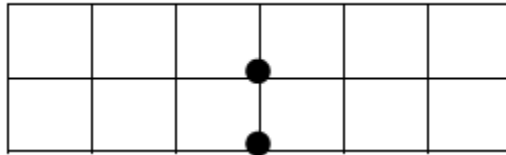
d. six and fifty-nine thousandths _____

Express as word form.e. 12.809 _____
_____f. 2.931 _____

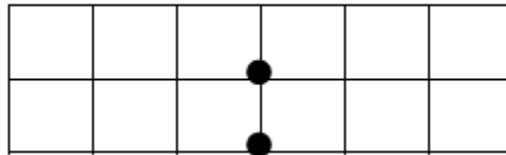
Key Symbols and Words:**Greater Than** _____**Less Than** _____**Equal To** _____**Least to Greatest** _____**Greatest to Least** _____**Ascending to Descending** _____**Descending to Ascending** _____**Input Activity****Problem 1:***Use $<$, $>$, or $=$ to compare***Steps:****Example:****3.196**  **3.296** **$\frac{567}{1000}$**  **$\frac{7}{10}$** 

Problem 2:*Use $<$, $>$, or $=$ to compare*

$$0.012 \bigcirc 0.002$$

**Problem 3:***Use $<$, $>$, or $=$ to compare*

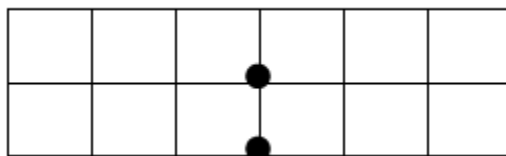
$$\frac{299}{1000} \bigcirc \frac{3}{10}$$



Change the
fractions to
decimals before
comparing!

Problem 4:*Use $<$, $>$, or $=$ to compare*

$$\frac{705}{1000} \bigcirc \frac{7}{10}$$

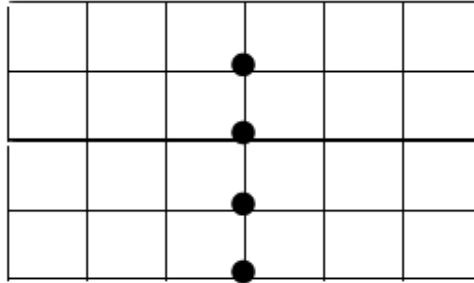


Change the
fractions to
decimals before
comparing!

Problem 5:

Order from least to greatest:

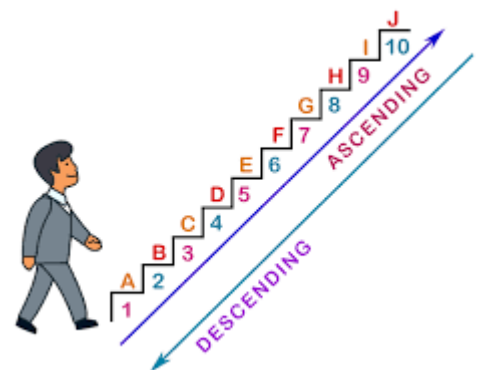
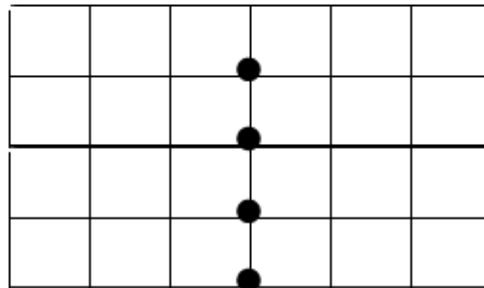
0.413 0.056 0.164 0.531



Problem 6:

Order from ascending to descending:

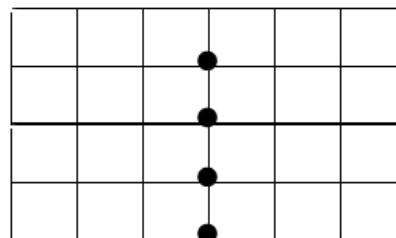
27.005 29.04 27.019 29.5



Problem 7:

Order from descending to ascending:

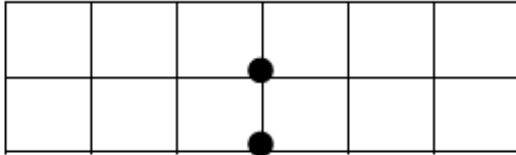
119.177 119.173 119.078 119.5



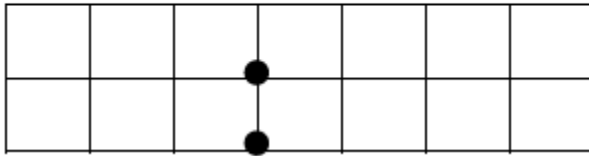
Problem Set

1. Show the numbers on the place value chart using digits. Use $>$, $<$, or $=$ to compare. Explain your thinking in the space to the right.

34.223  34.232



0.8  0.706



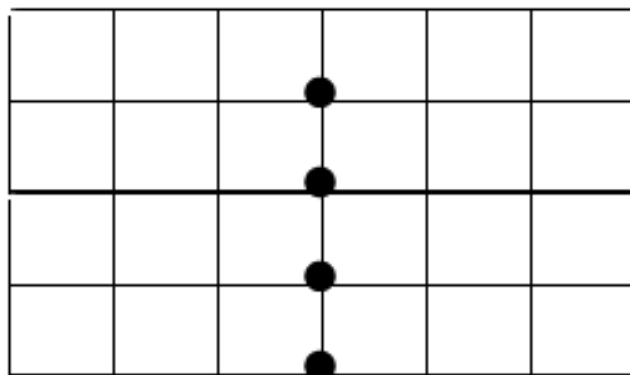
Arrange the numbers in increasing order.

3.049

3.059

3.05

3.04



Application Problem:

Craig, Randy, Charlie, and Sam ran in a 5K race on Saturday. They were the top 4 finishers. Here are their race times:

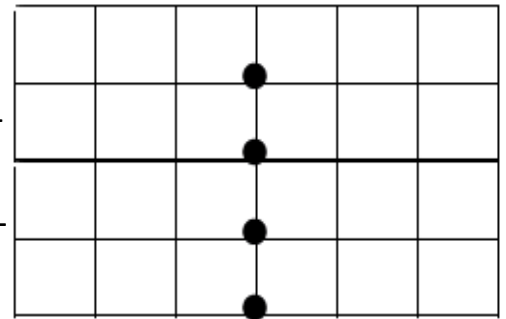
Craig: 25.9 minutes
 Randy: 32.2 minutes
 Charlie: 32.28 minutes
 Sam: 25.85 minutes

Who won first place? _____

Who won second place? _____

Who won third place? _____

Who won fourth place? _____

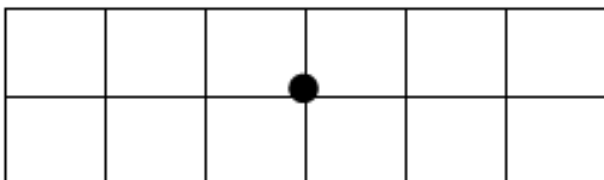
**Exit Ticket**

1. Show the numbers on the place value chart using digits. Use $>$, $<$, or $=$ to compare. Explain your thinking in the space to the right.

167.4



167.462

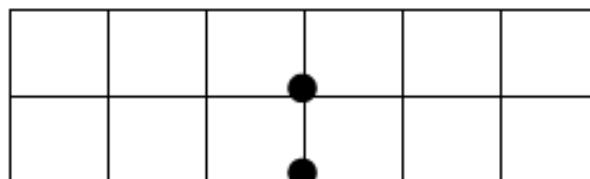


2. Use $>$, $<$, and $=$ to compare the numbers.

32.725



32.735



Name: _____

Date: 9/30/20

BCCS-Boys

College: _____



Homework

1. Use $>$, $<$ or $=$ to compare the following.

a. 16.45	<input type="text"/>	16.454
b. 0.83	<input type="text"/>	$\frac{83}{100}$
c. $\frac{205}{1000}$	<input type="text"/>	0.205
d. 95.045	<input type="text"/>	95.545
e. 419.10	<input type="text"/>	419.099
f. Five ones and eight tenths	<input type="text"/>	Fifty-eight tenths
g. Thirty-six and nine thousandths	<input type="text"/>	Four tens

2. Adam collected different types of ants to conduct a study on insects and measured the length of the ants. His observations are in the table below. Use the table to answer the following questions.

a. Which type of ant is the longest?

b. Which type of ant is the shortest?

c. Ordering the ant lengths in descending order.

Length of Various Types of Ants

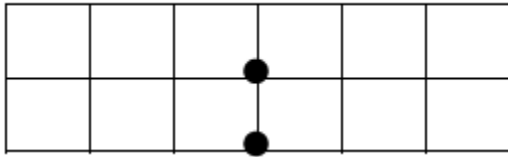
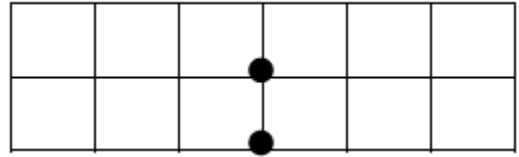
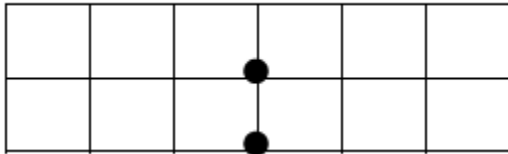
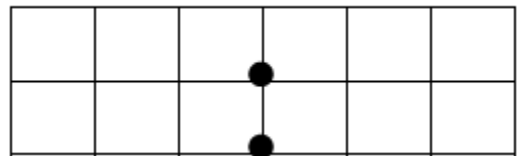
Type	Length
Black Garden Queen	0.77 cm
Black garden Worker	0.495 cm
Carpenter Ant	0.774 cm
Pharaoh Worker Ant	0.298 cm

Name: _____

Date: 10/1/20

BCCS-Boys

College: _____

Do NowUse $>$, $<$ or $=$ to compare.***12.45******12.21******47.895******451.87******125.203******125.21******108.26******108.1***

Key Words:

Rounding

Estimate _____

Words that mean to round: _____

Strong Arms

Ex: _____

Weakling_____

Ex: _____

Steps to Rounding:	Ex:
--------------------	-----

Weaklings

0, 1, 2, 3, 4

Input Activity**Round to the nearest tens place.**Strong Arms

5, 6, 7, 8, 9

Problem 1:47 \approx _____**Problem 2:**9 \approx _____**Problem 3:**59 \approx _____**Problem 4:**586 \approx _____**Round to the nearest hundreds place.****Problem 5:**73 \approx _____**Problem 6:**519 \approx _____**Problem 7:**1,784 \approx _____**Problem 8:**208 \approx _____

Round to the nearest thousands place.**Problem 9:****2,447 ≈ _____****Problem 10:****549 ≈ _____****Problem 11:****8,785 ≈ _____****Problem 12:****8,535 ≈ _____****Round to the nearest underlined place.****Problem 13:****12,985 ≈ _____****Problem 14:****1,478,123 ≈ _____****Problem 15:****46,852 ≈ _____****Problem 16:****667,891 ≈ _____**

Problem Set

Round to the nearest underlined place.

a. 56,709 \approx _____

b. 803,394 \approx _____

Round the following to the nearest thousands place.

a. 67,908 \approx _____

b. 19,245 \approx _____

Application Problem

For the county bake sale, the soccer team baked 222 cookies, 298 brownies, and 234 muffins.

Part A: Round each type of baked good to the nearest hundred.

Cookies _____

Brownies _____

Muffins _____

Part B: The soccer team baked about the same amount of two types of baked goods. What types were they? _____

**Exit Ticket**

Round the following to the nearest tens place.

a. $12,008 \approx$ _____

b. $49,612 \approx$ _____

Round the following to the nearest hundreds place.

c. $31,148 \approx$ _____

d. $12,511 \approx$ _____

Round the following to the nearest underlined place.

e. $2,\underline{4}31,235 \approx$ _____

f. $4\underline{5},753 \approx$ _____

Name: _____

Date: 10/1/20

BCCS-Boys

College: _____

Weaklings

0, 1, 2, 3, 4

**Homework**

Strong Arms

5, 6, 7, 8, 9

Round the following to the nearest tens place.a. 102 \approx _____b. 96 \approx _____**Round the following to the nearest hundreds place.**c. 148 \approx _____d. 511 \approx _____**Round the following to the nearest underlined place.**e. 711,285 \approx _____f. 235,903 \approx _____g. 100,906 \approx _____h. 94,542 \approx _____

The population of a certain city is 836,527. What is the population of this city rounded to the nearest thousand?

Name: _____

Date: 10/2/20

BCCS-Boys

College: _____

Weaklings

0, 1, 2, 3, 4

Do NowStrong Arms

5, 6, 7, 8, 9

Round the following to the nearest tens place.

b. 57 ≈ _____

b. 142 ≈ _____

Round the following to the nearest hundreds place.

c. 227 ≈ _____

d. 871 ≈ _____

Round the following to the nearest underlined place.e. 127,85 ≈ _____f. 143,963 ≈ _____

Key Words:**Strong Arms** _____

Ex: _____

Weakling _____

Ex: _____

Weaklings

0, 1, 2, 3, 4

Input Activity:**Round to the nearest tenths place.**

Strong Arms

5, 6, 7, 8, 9

Problem 1:**4.72** \approx _____**Problem 2:****0.97** \approx _____**Problem 3:****2.98** \approx _____**Problem 4:****5.02** \approx _____

Round to the nearest hundredths place.**Problem 5:****2.373 ≈ _____****Problem 6:****5.809 ≈ _____****Problem 7:****8.874 ≈ _____****Problem 8:****2.085 ≈ _____****Round to the nearest thousandths place.****Problem 9:****2.4470 ≈ _____****Problem 10:****5.7849 ≈ _____****Problem 11:****1.8512 ≈ _____****Problem 12:****.1532 ≈ _____**

Round to the nearest underlined place.

Problem 13:

1.2876 \approx _____

Problem 14:

1.965 \approx _____

Problem 15:

46.875 \approx _____

Problem 16:

6.891 \approx _____

Problem Set

Round to the nearest underlined place.

b. $0.\underline{7}09 \approx$ _____

b. $8.\underline{3}94 \approx$ _____

c. $81\underline{5}.947 \approx$ _____

d. $4.8\underline{9}7 \approx$ _____

Round the following to the nearest hundredths place.

e. $6.908 \approx$ _____

f. $12.45 \approx$ _____

g. $.3358 \approx$ _____

h. $8.13 \approx$ _____

Application Problem:

Light from the sun can travel a million miles in 5.368 seconds. How many seconds is that, rounded to the nearest tenth of a second?

Answer: _____ seconds

**Exit Ticket**

Round the following to the nearest tenths place.

b. $12.05 \approx$ _____

b. $4.96 \approx$ _____

Round the following to the nearest hundredths place.

c. $1.342 \approx$ _____

d. $5.718 \approx$ _____

Round the following to the nearest underlined place.

e. $2.\underline{2}35 \approx$ _____

f. $35.\underline{7}5 \approx$ _____

Name: _____ Date: 10/2/20

BCCS-Boys

College: _____

Weaklings

0, 1, 2, 3, 4

**Homework**

Strong Arms

5, 6, 7, 8, 9

Round the following to the nearest tenths place.

c. $1.34 \approx$ _____

b. $6.7 \approx$ _____

c. $9.15 \approx$ _____

d. $12.62 \approx$ _____

Round the following to the nearest hundredths place.

e. $14.78 \approx$ _____

f. $.245 \approx$ _____

g. $68.710 \approx$ _____

h. $9.103 \approx$ _____

Round the following to the nearest underlined place.

i. $\underline{1}.235 \approx$ _____

j. $3.\underline{5}94 \approx$ _____

k. $10.\underline{9}1 \approx$ _____

l. $74.\underline{5}17 \approx$ _____