

Math Grade 5 UNIT 2 OCTOBER 8-NOVEMBER 2, 2018 EXAM OCT. 31-NOV. 1, 2018

5.NBT.A.3, 5.NBT.A.4, 5.NBT.B.5, 5.NBT.B.6, 5.NBT.B.7, 5.MD.C.3, 5.MD.C.4, 5.MD.C.5, 5.MD.A.1

***October 8-12, 2018** 5.NBT.A.3, NBT.A.4

MONDAY OCT. 8, 2018:

-ENGAGEMENT/EXPLORATION: On your construction paper, CHART out all you can about base ten blocks. Use your tens rods and Cuisinart rods. Can the tens blocks represent decimals? Show how. RECORD IN YOUR CLASSROOM JOURNALS.

TUESDAY OCT. 9, 2018:

-ENGAGEMENT/EXPLORATION: In your classroom journals, write everything you can about the number 2.145. USE your Cuisenaire rods and tens blocks

WEDNESDAY OCTOBER 10, 2018:

-ENGAGEMENT/EXPLORATION: On your construction paper, write a quick prompt based on this word problem: Jo picked a seed from her flower. The seed has a mass of 0.245 gram. What are some different ways you can represent 0.245 gram?

THURSDAY OCTOBER 11, 2018:

-ENAGEMENT: What profession uses decimals (besides cashiers or anything that uses money)?

-EXPLORATION: PBT REPRESENTING DECIMALS WITH BASE 10 BLOCKS

FRIDAY OCTOBER 12, 2018

-ENGAGEMENT/EXPLORATION: Five swimmers enter a competition. The fifth swimmer won the competition with a time greater than 14 seconds. What could be a possible time for the fifth swimmer? Use a number with the thousandths decimal place, record it in the chart and then order the decimals from greatest to least. Their scores are listed in the table below:

Name of Swimmer	Scores Recorded in Seconds
Madison	14.473
Amy	14.67
Jeffrey	14.34
Peter	14.936
Swimmer 5	?

Use your tens blocks and Cuisenaire Rods

Exit Slip

-Select all of the letter choices that correctly answer the question below:

Pencil Type By Letter	Length (inches)
F	1.143
G	1.23
H	1.2745
J	0.947
K	0.9198

Based on the table above, which two comparisons of pencil lengths are true?

WRITE OUT THE DECIMAL COMPARISONS FIRST BEFORE CHOOSING

- A. $F > H$
- B. $J > K$
- C. $J > H$
- D. $G < F$
- E. $F = H$

***OCTOBER 15-19, 2018**

MONDAY OCTOBER 15, 2018

-ENGAGEMENT/EXPLORATION: On your construction paper (and classroom journals), CHART out the answer to: Can time be converted to decimal amounts? If so, how would you do this? Use your Cuisenaire Rods and tens rods.

TUESDAY OCTOBER 16, 2018

-ENGAGEMENT/EXPLORATION: enVision Math 2.0 p. 29 solve and share question (Use a Place Value Chart) The lengths of three ants were measured in a laboratory. The lengths were 0.521 centimeter, 0.498 centimeter, and .550 centimeter. Which ant was the largest? Which ant was the shortest? How can you represent this using models (such as your Cuisenaire rods)?

WEDNESDAY OCTOBER 17, 2018

-ENGAGEMENT/EXPLORATION: enVision Math 2.0 p. 36 (Convince Me) MODEL USING A NUMBERLINE

Rounding replaces one number with another that tells about how many or about how much. Round 2.36 to the nearest tenth. Is 2.36 closer to 2.3 or 2.4? Use a number line to show this.

THURSDAY OCTOBER 18, 2018

-ENGAGEMENT: When would someone need to use volume in real life? (Not with liquid)

-EXPLORATION: PBT Service Learning

FRIDAY OCTOBER 19, 2018

-ENGAGEMENT: why would you need to learn place value for real life? (Not money)

-EXPLORATION: PBT Service Learning

***OCTOBER 22-26, 2018**

MONDAY OCTOBER 22, 2018

-ENGAGEMENT/EXPLORATION: On your chart paper (and classroom journals) write everything you can about volume. Use the 1-inch cubes to make examples and draw them and calculate the volume.

TUESDAY OCTOBER 23, 2018

-ENGAGEMENT/EXPLORATION: On your chart paper (and classroom journals) Write and draw models to represent how a volume and area alike. How are they different? Use the Cuisenaire Rods.

WEDNSDAY OCTOBER 24, 2018

-ENGAGEMENT/EXPLORATION: In your classroom journals **solve**: Romulo built a birdhouse shaped like a rectangular prism. The base is 8 inches by 11 inches wide. The volume of the birdhouse is 792 cubic inches. What is the height of the birdhouse? This is a multi-step problem. Use your formulas and then decide on an order of operation you are going to use.

THURSDAY OCTOBER 25, 2018

-ENGAGEMENT: Carter and Thor decide to build a clubhouse, NO CATS!!! Since they are little dogs, they don't need a lot of space. If each dog has a volume of $h = 15.5$ inches, $l = 16$ inches, $w = 8$ inches. What could a possible volume measurement of the clubhouse be? (list in $h \times l \times w$)

-EXPLORATION: PBT The Shipping Box

FRIDAY OCTOBER 26, 2018

-ENGAGEMENT: Why is volume important?

-EXPLORATION: PBT The Shipping Box

-Exit Slip: Thor went shopping at IKEA and found a locker he wanted to buy so he could keep all his toys in it (since Carter kept yelling at him to pick them up off the floor, nag!). What is the volume if his locker is 10 inches wide, 25 inches high, and 6 inches deep?

***OCTOBER 29-NOVEMBER 2, 2018**

MONDAY OCTOBER 29, 2018

-ENGAGEMENT/EXPLORATION: Build a rectangular prism using cubes or Cusinart Rods that has a volume of 24 square units. How many different ways can this rectangular prism be built? Record and draw the dimensions on your chart paper and in your classroom journals.

TUESDAY OCTOBER 30, 2018

-ENGAGEMENT/EXPLORATION: On your chart paper and in your classroom journals solve: a load of wood weighs half as much as a load of stones. Altogether, 3 loads of stones and 2 loads of wood weigh 682 pounds. How much do 2 loads of stones and 1 load of wood weigh? (Explain how the answer is 426.25 pounds)

WEDNESDAY OCTOBER 31, 2018

-ENGAGEMENT/EXPLORATION: On your chart paper and in your journals explain how to use the standard algorithm to multiply multi-digit numbers. Provide an example. Discuss another strategy for multiplying your numbers.

THURSDAY NOVEMBER 1, 2018

-ENGAGEMENT: Why is it important to understand decimal place values?

-EXPLORATION: Carter and Thor are going to run for president. They decide to make campaign posters. Thor thinks a really large poster will be the best way to advertise. Carter thinks they should go smaller. Thor states his poster length should be 15.5 inches across and Carter thinks his poster should be 15.05 inches. Carter said that his poster is bigger. Thor said Carter is **WRONG!** Who is correct? Write an inequality statement to compare. Simon takes a stand and says that the poster should be 15.50 inches. Use an inequality statement to compare all three numbers and **EXPLAIN.**

FRIDAY NOVEMBER 2, 2018

-ENGAGEMENT: How does the value of a number change when a zero is placed before or after a decimal?

-EXPLORATION: PBT Shipping Box

-Exit Slip:

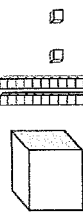
Carter read for 2.07 hours, Thor read for 2.70 hours, and Simon read for 2.070 hours. Thor said he read the most, is he correct? Use inequality statements and **EXPLAIN.** Use a place value chart to show how you know your answer is correct.

Representing Decimals with Base 10 Blocks

Materials: Base 10 blocks

1. Give the large cube in a Base 10 set a value of 1, the flat a value of one tenth, the long a value of one hundredth, and the small cube a value of one thousandth.
2. Use 5 base ten blocks to represent a decimal number.
3. Record using pictures, numbers, word form and expanded form.
4. Repeat using other combinations of 5 Base 10 blocks.

Example:

Picture	Number	Word Form	Expanded form
	1.022	One and twenty two thousandths	$1.022 = 1 \times 1 + 0 \times (1/10) + 2 \times (1/100) + 2 \times (1/1000)$

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Within this task, the value of one whole is represented using the large cube. The objective of the task is to develop student's number sense through an understanding of place value using base ten blocks. In other tasks and activities you may assign values to the place value blocks to represent the whole.

Service Learning

Name: _____ Date: _____

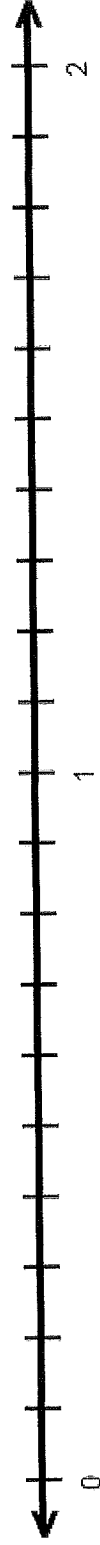
Some of the 5th grade students volunteer to earn Service Learning Hours. The chart below shows the number of hours each student has earned for planning their project.

1) Complete the Chart.

5th Grade Service Learning

<u>Name</u>	<u>Project</u>	<u>Service Hours Earned</u>	<u>Expanded Form of Hours</u>
Layla	Stay Warm: Hats & Gloves	One and twenty five hundredths	
Bryce	Reading to Tots	Nine hundred seventy thousandths	
Destiny	Food Pantry Collections	One hundred twenty five thousandths	
Xavier	Roadside Clean-up	Two	

2) Label each tick mark on the number line below. Graph and identify each students' hours on the number line. Write the name of the student and the standard form for the number of hours below the name.



3) Explain your reasoning for placing the students' names in the locations on the number line.

Use the information from the **5th Grade Service Learning Chart** to answer the questions below

Service Learning

Name: _____ Date: _____

4) The Service Learning Coordinator wants Bryce's hours to the nearest tenth of an hour. How should Bryce's report his time? Why? _____

5) Write a comparison using $>$, $<$, or $=$ to show how the greatest number of service hours compares to the fewest number of service hours.

6) How many minutes did Layla spend planning for the Stay Warm: Hats & Gloves Project? Show your thinking below.

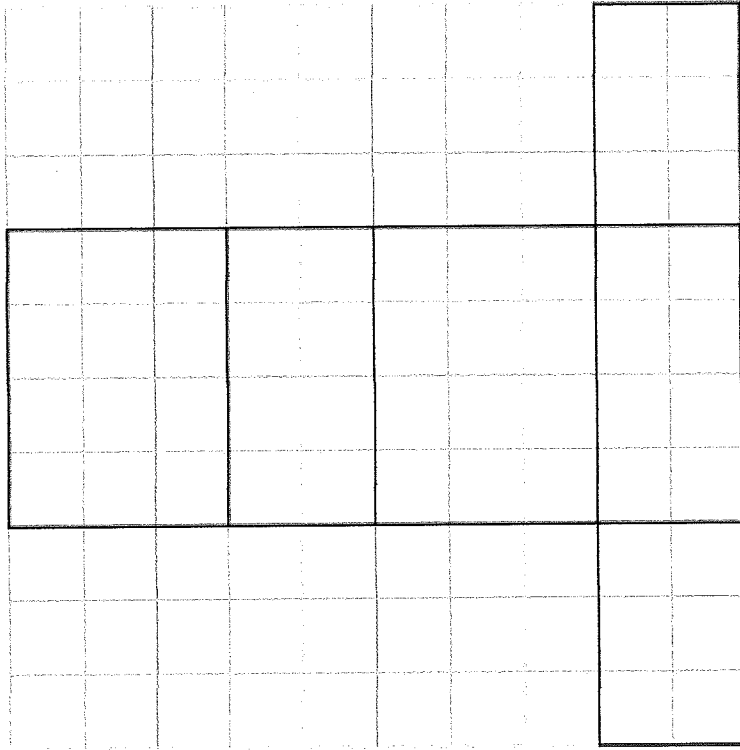
7) How many minutes did Bryce spend planning for the Reading to Tots Project? Show your thinking below.

At the food pantry, boxes of food are delivered inside of bigger delivery boxes. The net of the delivery box is below.

Service Learning

Name: _____ Date: _____

- 8) How many 1 cubic unit boxes of food can fit inside the delivery box? _____
- 9) Build a model of the delivery box based on the net.

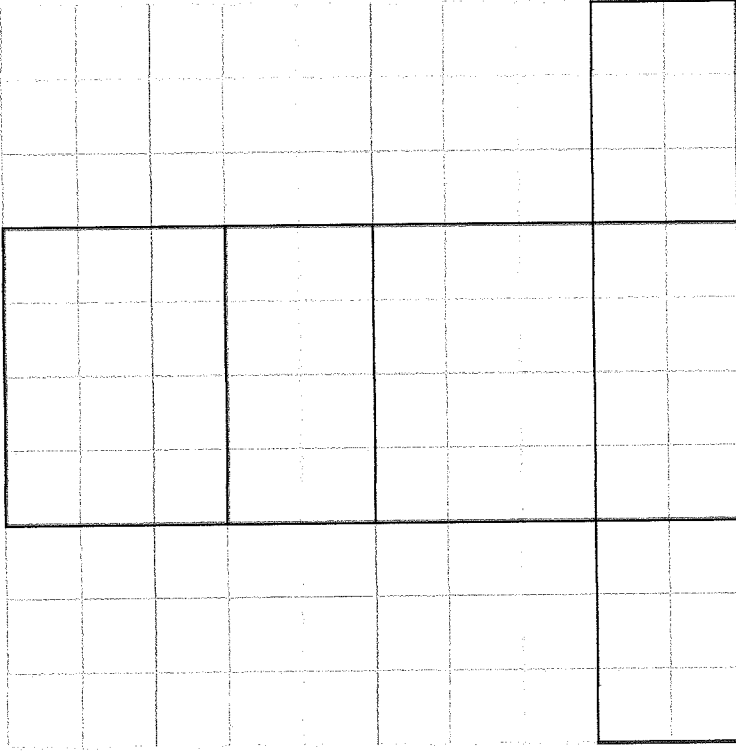


10) What are the dimensions of the delivery box? Length = _____ Width = _____ Height = _____

Service Learning

Name: _____ Date: _____

**Cut out the net of the delivery box along the dark lines.
Tape the delivery box together to build the model of the delivery box.**



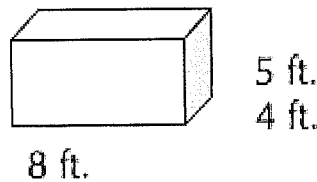
5.MD Cari's Aquarium

Alignments to Content Standards: 5.MD.C.5.b

Task

Cari is the lead architect for the city's new aquarium. All of the tanks in the aquarium will be rectangular prisms where the side lengths are whole numbers.

- a. Cari's first tank is 4 feet wide, 8 feet long and 5 feet high. How many cubic feet of water can her tank hold?



- b. Cari knows that a certain species of fish needs at least 240 cubic feet of water in their tank. Create 3 separate tanks that hold exactly 240 cubic feet of water. (*Ex: She could design a tank that is 10 feet wide, 4 feet long and 6 feet in height.*)

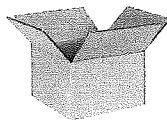
- c. In the back of the aquarium, Cari realizes that the ceiling is only 10 feet high. She needs to create a tank that can hold exactly 100 cubic feet of water. Name one way that she could build a tank that is not taller than 10 feet.

IM Commentary

This task supports the standard 5.MD.5.b in that it asks students to use the volume formula and

Task: The Shipping Box

(Adapted from Maryland Mathematics Performance Task and Measured Progress)



Mara has a shipping crate in the shape of a rectangular prism with inside dimensions of 2 feet by 3 feet by 4 feet. Mara will pack cube-shaped boxes inside the shipping crate. The cube-shaped boxes have a side length of 4 inches.

Part A

- What is the volume of the shipping crate? Show your work using numbers, words, and/or models to explain your thinking. .

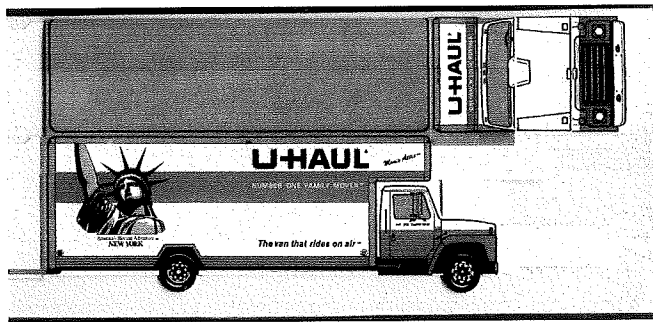
Part B

- How many cube-shaped boxes will fit into the shipping crate to completely fill the box without gaps or overlaps? Show your work using numbers, words, and/or models to explain your thinking.

TASK PERFORMANCE 5.MD.5

GREEN, RED, BLUE

Thor and Carter want to make some money. So they decide to deliver fruit to the groceries stores. They are looking to purchase a used moving van and require their compartment space to be at least 1,456 cubic feet.



The height of the compartment above the cab is 3 feet. The entire length of the roof is 20 feet. The height of the back end of the truck is 11 feet. The length of the bottom of the truck is 16 feet. The width across the front is 9 feet. Looking at the top of the truck, you can see that the truck is perfectly rectangular.

Part A:

What is the volume of the truck above that Thor and Carter want to buy?

Part B:

Based on your calculations from above, will the truck have more or less space than the amount of space that Thor and Carter want for their fruit business? **CALCULATE AND EXPLAIN!** (BLUE: if each cantaloupe measures approximately 6 inches by 4 inches by 6 inches, how many cantaloupes can they fit in the van above? **EXPLAIN**)

HOMEWORK OCTOBER 8, 2018 5.NBT.6

(GREEN, RED, BLUE) Sandals.com is having a vacation sale, and Thor and Carter want to go. 121 other people also sign up to go. Everyone will meet at the bus station and ride together to the airport as a group. Each shuttle bus can only hold 25 people. Shayla is going to drive the shuttle. How many shuttle buses are required to transport the people to the airport?

Explain your strategy.

Show work here:

In this problem I used _____ because
_____ means to _____
_____.
So I did the equation of _____
_____.
Therefore, _____
_____.
I get _____ as the answer, which means _____

The math vocabulary I used was: _____

(RED, BLUE) Little Sherman was playing around and fell off the shuttle bus. His mother freaked out and jumped off the bus. Then his 4 sisters, cousin, and father jumped off. Grandpa said he was too old to jump off the shuttle bus, so he stayed on. How many shuttle buses are needed now?

(BLUE) The shuttle buses were getting ready to take off. But then, an entire farm (Old MacDonald's farm), came with 14 goats, 9 chickens, 8 pigs, 3 donkeys and a duck. Farmer Rocky and his wife are also going on vacation. How many shuttle buses do they need now?

HOMEWORK OCTOBER 9, 2018 5.NBT.6

GREEN, RED, BLUE: Old MacDonald had a farm. The sheep and goats were fed up with the pigs, so they decided to take a trip to South Florida. There are 57 sheep and 67 goats. They need to reserve the correct number of buses. If each bus holds 24 animals, and Thor and Carter will drive the buses, how many buses are needed to transport the sheep and goats on vacation?

Explain your strategy.

Show your work here:

In this problem I used _____ because _____ _____ means to _____ _____.
So I did the equation of _____ _____.
Therefore, _____ _____.
I get _____ as the answer, which means _____ _____ _____.
The math vocabulary I used was _____ _____.

RED, BLUEThe bus is leaving and 6 goats are still in the bathroom and 12 sheep are at Dairy Queen. Thor and Carter will make the final count in order to finalize the number of buses needed. How many buses are needed now?

BLUE:Half of the goats that were in the bathroom realized the buses were leaving and ran out in haste to get on the bus that Thor and Carter are driving. Half of the sheep hopped on a moped to get back in time. Will there be enough room on the new number of buses now, or will another bus need to be ordered

HOMEWORK: OCTOBER 10, 2018 5.MD.3a

(GREEN, RED, BLUE) Little Jamil and Little Brian build a platform for the annual farm animal parade. The platform is the shape of a rectangular prism. The length is 5 units, 2 units wide, and 3 units high. (First solve the problem by $l \times w \times h$) Then compute each letter to see which problems give you the same answer.

Which expressions represent the volume, in cubic units, of the prism? Then draw the prism.

- a. $5+2+3$
- b. $(5 \times 2) \times 3$
- c. $5+5+3+3+2+2$
- d. $(2 \times 5) + (3 \times 2) + (5 \times 3)$
- e. $(5 \times 2) + (5 \times 2) + (5 \times 2)$

Explain your strategy.

In this problem I used _____ because _____.
The formula for _____ is _____. Volume means _____.
Therefore, _____.
when I compute A, it is _____. B is _____.
C is _____ D is _____.
E is _____. Therefore, this means that _____.

This is because _____.
The math vocabulary I used was _____.
_____.

(RED, BLUE) Little Diego and Little Demetrius were headed into the pen when they got distracted by shiny lights, so Old MacDonald's chickens stampeded into the corral and half of the platform broke. What are two expressions that you can use now?

(BLUE) Little Rocky and Little Divine help Donkey try to rebuild the platform. He ended up building it **twice as big** as it first was. What are new expressions now?

HOMEWORK OCTOBER 11, 2018 5.MD.3a

GREEN, RED, BLUE: The picture represents a single layer cake that Little Chef Braelyn and Little Chef Lillith baked (It's a rectangular prism) and filled with congruent sugar unit cubes. (length= 6 units, width= 4 units, height= 4 units) Draw and label a model.

Which expressions represent the volume, in cubic units, of the prism?

- A. $6 + 4 + 4$
- B. $(6 \times 4) \times 4$
- C. $6 + 6 + 4 + 4 + 4 + 4$
- D. $(2 \times 6) + (2 \times 2) + (4 \times 4)$
- E. $(7 \times 8) + (2 \times 10) + (2 \times 10)$

In this problem I used _____ because _____.
The formula for _____ is _____. Volume means _____.
Therefore, _____.
when I compute A, it is _____. B is _____.
C is _____ D is _____.
E is _____. Therefore, this means that _____.
_____.
This is because _____.
The math vocabulary I used was _____.
_____.

RED, BLUE: Little Chef Emely and Little Chef Jazmine bake another layer of cake and add a layer that is exactly the same size as the bottom layer. Using the formulas above, create 2 other equations that will equal the NEW volume. Draw and label a model.

BLUE: Little Da'Vion decided to bake another layer of the cake. He placed the top layer on the cake. What are two new formulas that equal the volume? Draw and label a model.

HOMEWORK OCTOBER 15, 2018 5.NBT.4

GREEN, RED, BLUE: Farmer Old MacDonald was growing fruit. He prized his eggplants. He measured his largest eggplant and it weighed in at 5.962 kg. Round the number to the nearest tenth. Round the number to the nearest hundredth.

Tenths: _____ Hundredths: _____

Explain your strategy using place value. **Draw a place value chart on the back**

In this problem I used _____ in order to round. When I round, I need to _____.

This is because (explain how to round) _____

Therefore, I know my answer is reasonable because when rounding to the whole number I

_____. The tenths I did _____

_____. The hundredths I did _____

The math vocabulary I used was _____

RED, BLUE: The pigs at the farm didn't like the eggplants, so they threw them over the fence then ran away so they wouldn't get spanked. The chickens didn't want the pigs to get in trouble, so they climbed over the fence and scooped up the remains. The largest eggplant lost 1.0329 kg in weight. What is the new weight rounded to the nearest tenth? Hundredth?

Tenths: _____ Hundredths: _____

BLUE: Little Dawson and Little Cody were spying on the farm and wanted to get the pigs in trouble. They tattled on them to Old MacDonald. The farmer came out and spanked the pigs, who then started to cry. The chickens got mad and picked up the remaining eggplants and threw them at the boys. Little Brendie tried to clean the vegetables off Little Dawson and Little Cody. She weighed the remains and found that one glob was half of the original eggplant. Then scooped off another glob that was 0.978 kg, and a third glob that was 4.06 kg. What is the **NEW** total amount of eggplant splatter that Little Brendie wiped off the boys rounded to the nearest tenth? Hundredth? Tenths: _____ Hundredths: _____

TYPE I Assessment Questions

Questions were adapted from PARCC Public Release items. Do not consider these questions to be the only way the standard can be assessed. ITEM NUMBERS MUST BE CONSECUTIVE AND MATCH AN ANSWER KEY

5.NBT.A.3

1)

Select the **two** values that are less than seven hundred three and forty-seven thousandths.

703.1

703.46

seven hundred three and nine-tenths

seven hundred three and one-hundredth

$$7 \times 100 + 2 \times 10 + 1 \times 1 + 0 \times \frac{1}{10} + 2 \times \frac{1}{100}$$

$$7 \times 100 + 0 \times 10 + 3 \times 1 + 0 \times \frac{1}{10} + 1 \times \frac{1}{100} + 8 \times \frac{1}{1000}$$

2)

Which expression shows 293.64 in expanded form?

- A. $2 \times 10 + 9 \times 1 + 3 \times \frac{1}{10} + 6 \times \frac{1}{100} + 4 \times \frac{1}{1,000}$
- B. $2 \times 100 + 9 \times 10 + 3 \times 1 + 6 \times \frac{1}{10} + 4 \times \frac{1}{100}$
- C. $2 \times 100 + 9 \times 10 + 3 \times 1 + 6 \times \frac{1}{100} + 4 \times \frac{1}{1,000}$
- D. $2 \times 1,000 + 9 \times 100 + 3 \times 10 + 6 \times 1 + 4 \times \frac{1}{10}$

5.NBT.A.4

3)

Select the **two** statements that show a number correctly rounded to the **thousandths** place.

- A. 0.1951 rounds to 0.19
- B. 1.3976 rounds to 1.398
- C. 2.8102 rounds to 2.82
- D. 5.2547 rounds to 5.254
- D. 6.0007 rounds to 6.001
- D. 4.8961 rounds to 4.89

CREATE A PLACE VALUE CHART

5.NBT.B.5

4)

Solve.

Enter your answer in the box.

$$826 \times 3,569 =$$

HOMEWORK OCTOBER 17, 2018 5.NBT.7

(GREEN, RED, BLUE) Old MacDonald went to dinner and brought 5 of his animal friends. The bill came to \$89.76. Old MacDonald was going to pay the entire bill until the duck got mad and spit his food on the floor. So now they have to split the bill evenly amongst them all. What is the numerical equation? How much will each pay?

Explain your strategy.

Show your work here:

In this problem I used _____ because
_____ means to _____
_____.
So I did the equation of _____
_____.
Therefore, _____
_____.
I get _____ as the answer, which means _____

The math vocabulary I used was _____

(RED, BLUE) The pig wanted some chocolate eclairs and ordered 4 at \$3.24 a piece. She snuck that into the entire bill so the others would pay for her dessert even though she wasn't sharing. How much does each person pay now?

(BLUE) Old MacDonald was onto the pig. He demanded she pay for her portion, PLUS half of his portion of the bill. How much will just the pig pay?

HOMEWORK OCTOBER 18, 2018 5.NBT.7GREEN, RED, BLUE: The donkeys on Old MacDonald's farm snuck out and stole the Farmer's Prius, but since they couldn't drive (because they have no thumbs), Little Sheily volunteered to drive them. The donkeys stuffed their chubby shelves into the car and went to dinner at Bob Evans. Their bill came to \$104.58, including the tip. Little Sheily suggested that she and the five donkeys split the cost evenly. Write an equation that represents how much each individual paid. Then solve.

Explain your strategy

Show your work here:

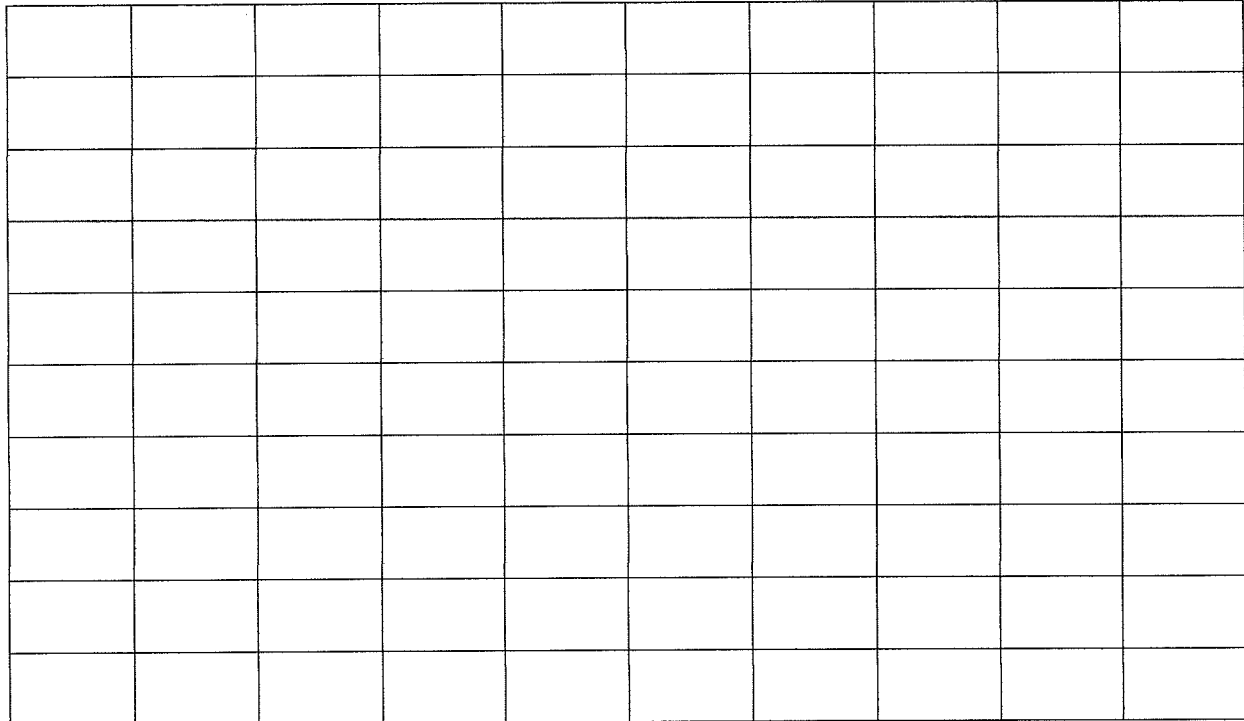
<p>In this problem I used _____ because</p> <p>_____ means to _____.</p> <p>_____.</p> <p>So I did the equation of _____.</p> <p>_____.</p> <p>Therefore, _____.</p> <p>_____.</p> <p>I get _____ as the answer, which means _____.</p> <p>_____.</p> <p>_____.</p> <p>The math vocabulary I used was _____.</p> <p>_____.</p>
--

RED, BLUE: The chickens became angry that they weren't invited. They bribed Little Winta and Little Shayanne to drive them to Bob Evans. They dropped them off at the door and went home. The chickens crashed the dinner by ordering \$56.76 more worth of food and left it on the donkey's and Sheily's bill(from above). Then they called Little Demetrius and made him pick them up and take them home. What is an equation now that shows how much Little Sheily and the donkeys will pay if they split the new total evenly? How much will each of them pay?

BLUE: Little Louise didn't like these chicken antics one bit. She demanded that the manager remove the extra added food off the bill. Little Sanya was the manager on duty and agreed she'd take off **half** of the added food, but not a penny more. Now how much will each person pay equally? What is a number sentence that shows this equation?

HOMEWORK OCTOBER 19, 2018 5.NBT.7

(GREEN, RED, BLUE) Color the model to represent $.3 \times .80$ on the grid below. (THE ROWS CAN OVERLAP)



Using ten blocks, separate them into groups and draw a model to represent the following division sentence: $1.8 \div 3$. Show work below by drawing tens rods then separating them into groups. Remember, 10 tens rods makes 1.0 or one whole. Each tens rod is $.10$ (Use this information in your explanation below.)

In this problem I used _____ value because _____.
I drew _____ rods because _____.
Therefore, _____.
I know my answer is reasonable because _____
_____.
The math vocabulary I used was _____.
Place value is important because _____
_____.

(GREEN, RED, BLUE) Old MacDonalld decided that selling fruit just wasn't cutting it. He turned his farm into a boot leg Apple factory. In order to make his quota, his animals need to assemble at least 280 iPads per day. How many iPads will be assembled in one year?

Explain your strategy.

Show your work

In this problem I used _____ because _____ _____ means to _____ _____ So I did the equation of _____ _____ Therefore, _____ _____ I get _____ as the answer, which means _____ _____ _____ The math vocabulary I used was _____ _____

(RED, BLUE) Halfway through the year (use 26 weeks), the union kicked in and demanded weekends off. If the animals are no longer assembling 280 iPads on each day of the weekend, how many iPads will be assembled by the end of the year? (divide the answer above by 2, then add that to your answer in this problem)

(BLUE) This new rule got the Farmer into a tizzy. He demanded they meet their original quota! How many extra iPads need to be assembled each day during the week in order to make the quota? (Take the answer from the first problem and subtract the answer from the second problem, then divide by 183 = you can use a calculator for this part)

HOMEWORK OCTOBER 23, 2018 5.NBT.5

GREEN, RED, BLUE: The pigs on Old MacDonald’s farm must go to work for Apple to pay the farmer back for the smashed eggplants. Little Brandon and Little Jayden are the supervisors on duty. The pigs are responsible for assembling 220 iPads everyday (including weekends). How many iPads will they assemble in one year? Explain your strategy. Show your work here.

In this problem I used _____ because

_____ means to _____

_____.

So I did the equation of _____

_____.

Therefore, _____

_____.

I get _____ as the answer, which means _____

The math vocabulary I used was _____

RED, BLUE: Little LJ and Little Kyah are the weekend managers at Apple. On Jan.1 there is a football game on and they sneak away to watch it. The pigs slack off and only make half of the amount on Saturday and Sunday that they are supposed to. Now how many iPads will they assemble in one entire year? Divide 52 into the answer from above. Use the whole number then divide 7 into that number. Set up a model chart by putting in number made for the day.

Mon	Tues	Wed	Thurs	Fri	Sat	Sun

BLUE: Luckily football season is only from September to late January/early February. Little Ayre’ana takes over the managerial duties and fires the boys. If the pigs slacked off for 8 weeks, how many iPads will they make now? (use a calculator)

HOMEWORK OCTOBER 24, 2018 5.NBT.6
(GREEN, RED, BLUE)

Write a pair of numerical sentences that describe this array. (Like a fact family)

Write the complete fact family that describes the array. Explain why the number sentences are related using math vocabulary such as order of operations.

In this problem I used an array to represent _____. The orders of operation _____ and _____ are related because when I write the fact family, the equations are _____

I know my answer is reasonable because _____

The math vocabulary I used was _____

(RED, BLUE) What if this was a grid plan for building a garden at Old MacDonald's farm? (He had to give up the Apple iPad assembly because none of the animals had thumbs and they couldn't keep up.) The goats trample a third of the garden. What other number sentences can be written? Draw and label a model.

(BLUE) The goats are sorry and hire the dog to draw up a new plan for a bigger and better garden. His plan adds $\frac{2}{3}$ more space. What are the new equations now? Draw a model.

$\frac{2}{3}$ of 6 means $\frac{2}{3} \times \frac{6}{1}$ and multiply straight across; divide the denominator into the numerator.
3 3 1

HOMEWORK OCTOBER 24, 2018 MULTIPLICATION

SHOW ALL WORK!! DO NOT USE A CALCULATOR!

71.8

x 81

908

x12

789

x56

182

x246

92.3

x89

765

x78

HOMEWORK OCTOBER 25, 2018 5.NBT.6

GREEN, RED, BLUE: In order to make up for their naughty behavior, the chickens decide to make a new pond for the goldfish for the Farmer. They hire Little Kamari as the contractor to create a grid for the plans. The grid looks like this:

Give two related equations that describe the array.

_____ x _____ = _____ and _____ ÷ _____ = _____

Explain how division is related to multiplication and use of communicative property.

In this problem I used an array to represent _____. The orders of operation _____ and _____ are related because when I write the fact family, the equations are _____

I know my answer is reasonable because _____

The math vocabulary I used was _____

RED, BLUE: Little AJ and Little Alonzo think the grid is too big. They think the extra space can be used for building a hot dog stand. They take 3 complete rows off the grid plan. What are two new equations that describe the new array?

BLUE: Little Christian is in charge of pouring the cement. He trips on a dirty boot (left from Little Cori) and all the cement is on a third of the new array. What are the equations now? A pig is chasing Little Andrew and he runs through the cement and smears it onto another $\frac{1}{4}$ of the grid. What are the new equations now?

HOMEWORK OCTOBER 26, 2018 5.NBT. 7, 5.MD.1

(GREEN, RED, BLUE) The goose laid a golden egg. IT WAS HUGE! The egg weighed 23.5 pounds!
How many ounces is that? Explain your strategy. Show your work here.

In this problem I used _____ because _____ _____ means to _____ _____.
So I did the equation of _____ _____.
Therefore, _____ _____.
I get _____ as the answer, which means _____ _____ _____.
The math vocabulary I used was _____ _____.

(RED, BLUE) The donkey got wind of the golden egg and made a plan to sell it so he could buy a lifetime supply of Lucky Charms Cereal. If gold is sold for \$766 per ounce, how much money can the donkey make?

(BLUE) If Lucky Charms cost \$3.99 per box, how many boxes can they buy? What if they go to Giant and there is a sale where there is a special deal where you buy two, get one free? How many boxes can he get now? (Add two boxes together, then divide by 3, then divide that answer into the answer above) Use a calculator.

HOMEWORK October 29, 2018 5.NBT. 7, 5.MD.1

GREEN, RED, BLUE: Thor likes ice cream, so he and Carter skip to Dairy Queen. They need to order 15.5 pounds of ice cream for a birthday party at the farm. The problem is that the cashier can only measure the amount in ounces. What amount should Thor and Carter tell her they need? (there are 16 ounces in one pound) Explain your strategy.

In this problem I used _____ because _____.
Multiplication means _____.
I use multiplication to (when) _____ _____.
I used the equation _____ because _____.
I know my answer is reasonable because _____ _____ _____.
The math vocabulary I used was _____ _____.

RED, BLUE: Simon and Holly are the party planners for the farm. They instruct Thor and Carter to go back and order **twice the amount** of ice cream for the party. How many pounds AND how many ounces will Thor and Carter bring back?

BLUE: Thor wants rocky road, Carter wants Peppermint stick, Simon wants Butter Pecan, Holly wants Pistachio, Winston wants Fudge Ripple, Penny wants chocolate and cheese, Bella wants vanilla, Bene wants fudge brownie, Charlie wants orange cream sherbet, Abby wants strawberry, Scooter wants cinnamon swirl, Buddy wants mint chip, Little Maliah wants licorice cream, and Cori is still being chased by the pig. If the order of ice cream is quadrupled, how much ice cream will each animal get? Calculate in pounds and ounces. (use answer from above and you may use a calculator)

HOMEWORK October 30, 2018 5.MD.5, 5.NBT.5, 5.NBT.7

GREEN, RED, BLUE: Thor was there to listen to the complaints of the goats. They felt undervalued. He suggested they move to another farm if they were sad. Carter and Simon helped them pack their stuff, and they loaded it into the moving van. Holly was the driver. The truck body is 15 ft long, 12 ft high, and 8 ft. deep. What is the volume of the truck body? Draw a model. Explain your strategy Show your work:

In this problem I used _____ to find volume. Volume

means _____.

The equation I used was _____

because _____.

I know my answer is reasonable because _____

_____.

The math vocabulary I used was _____.

RED, BLUE: There is space over the cab of the truck. (The cab is where the people sit.) That space is an extra 2 ft. high, still 8 feet wide, and 3.5 feet long. What is the TOTAL amount of volume space available in the truck now? Thor and Carter need to arrange the boxes in the space as Simon directs where the boxes are to be placed. Add the small space to the space above.

BLUE: The boxes are 2 ft. by 2 ft. by 2 ft. How many boxes can fit in the moving van? If there are 150 boxes to move, will there be enough space?

HOMEWORK OCTOBER 31, 2018 5.NBT.7

GREEN, RED, BLUE : Thor wants to go to the new Marvel Comic movie. Carter says they can't go until they practice their math skills. Thor sticks his tongue out at Carter but agrees to practice first. They find out that the movie theater has 64 seats in one row. The seats are extra wide for superior comfort. If each seat is 3.14 feet wide, what is the length of the entire row in feet?

Explain which strategy you used.

Show your work here

In this problem I used _____ because _____.
Multiplication means _____.
I use multiplication to (when) _____ _____.
I used the equation _____ because _____.
I know my answer is reasonable because _____ _____ _____.
The math vocabulary I used was _____ _____.

RED, BLUE: Thor wants to take short cuts for figuring this math thing out. Carter says that is lazy. Thor argues and says that they can estimate by rounding to the nearest whole number and then calculate the answer. Carter says it's more accurate to round to the nearest tenth and then calculate. What would Thor's answer look like compared to Carter's. Who is right? Why?

BLUE: Simon decides he will not drive the boys unless they calculate all the rows of the entire theatre. If the last row has the 64 seats in it and then there are 5 rows total, where each row successively decreases by 4 seats each, what is the entire footage of all the rows altogether in the entire theatre? (use a calculator)

5)

Multiply.

$$\begin{array}{r} 2,639 \\ \times 29 \\ \hline \end{array}$$

Enter your answer in the box.

5.NBT.B.6

6)

EXPLAIN HOW DID THIS

What is the value of the expression $1,732 \div 4$?

- A. 408
- B. 433
- C. 476
- D. 483

Handwritten lines for explanation:



5.NBT.B.7

7)

Solve.

Enter your answer in the box.

$$0.5 \times 1.24 =$$

8)

Part A

Which is closest to the value of $2.3 \div 12$?

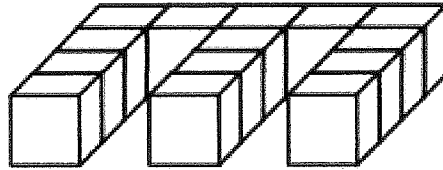
- A. 0.02
- B. 0.2
- C. 2
- D. 20

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5.MD.C.4

9)

In this figure each cube is the same size, 1 cubic unit, and all cubes are shown.



What is the volume of this figure?

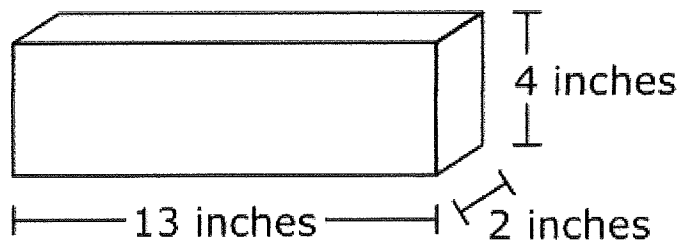
Enter your answer in the box.

cubic units

5.MD.C.5

10)

A rectangular prism is shown.



What is the volume of this rectangular prism?

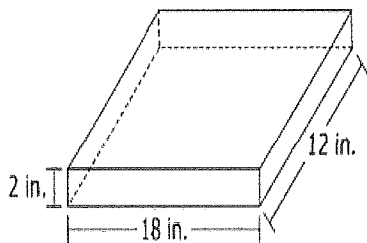
Enter your answer in the box.

cubic inches

EXPLAIN YOUR STRATEGY

11)

A rectangular prism is shown.



What is the volume, in cubic inches, of the rectangular prism?

Enter your answer in the box.

cubic inches

5.MD.A.1

12)

Tanya buys 12 water bottles. Of those bottles, 5 hold 300 milliliters each and 7 hold 1.5 liters each.

Part A

How much water, in milliliters, does Tanya buy?

Enter your answer in the box.

Part B

How much water, in liters, does Tanya buy?

Enter your answer in the box.