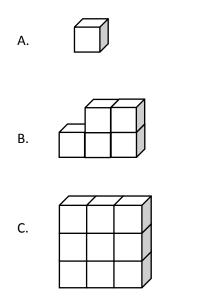
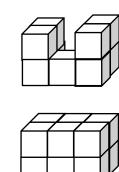
Date _____

1. Use your centimeter cubes to build the figures pictured below on centimeter grid paper. Find the total volume of each figure you built, and explain how you counted the cubic units. Be sure to include units.

D.

Ε.







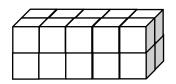


Figure	Volume	Explanation
А		
В		
С		
D		
E		
F		

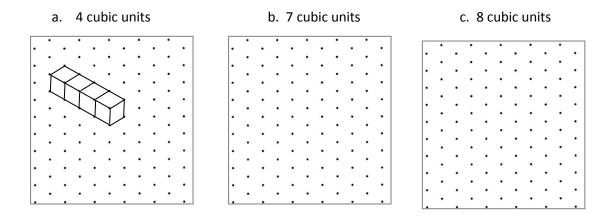


Lesson 1: Date: Explore volume by building with and counting unit cubes. 10/21/14

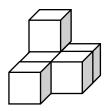


5.A.9

2. Build 2 different structures with the following volumes using your unit cubes. Then, draw one of the figures on the dot paper. One example has been drawn for you.



- 3. Joyce says that the figure below, made of 1 cm cubes, has a volume of 5 cubic centimeters.
 - a. Explain her mistake.



b. Imagine if Joyce wants to build a second layer of the same structure identical to the figure above. What would its volume be then? Explain how you know.



Explore volume by building with and counting unit cubes. 10/21/14

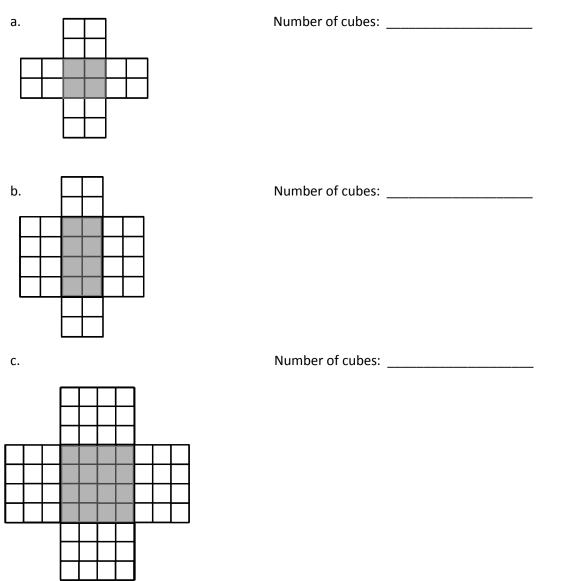


5.A.10

NYS COMMON CORE M	IATHEMATICS	CURRICULUM
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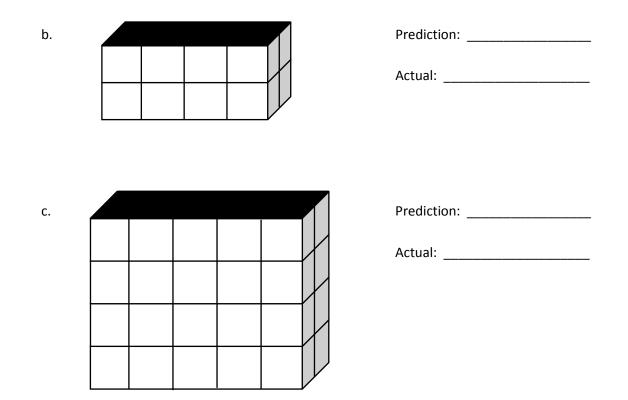
Date _____

1. Shade the following figures on centimeter grid paper. Cut and fold each to make 3 open boxes, taping them so they hold their shapes. Pack each box with cubes. Write how many cubes fill the box.



2. Predict how many centimeter cubes will fit in each box, and briefly explain your prediction. Use cubes to find the actual volume. (The figures are not drawn to scale.)

a.				Prediction:		
COMMO	м	Lesson 2: Date:	units and counting. 10/21/14	t rectangular prism by packing with cubic	engage ^{ny}	5.A.22



3. Cut out the net in the template, and fold it into a cube. Predict the number of 1-centimeter cubes that would be required to fill it. Test your prediction using as few cubes as possible. What did you discover?

Prediction: _____

What I discovered:



Find the volume of a right rectangular prism by packing with cubic units and counting. 10/21/14



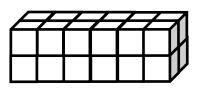
Date _____

- 1. Use the prisms to find the volume.
 - Build the rectangular prism pictured below to the left with your cubes, if necessary.
 - Decompose it into layers in three different ways, and show your thinking on the blank prisms.

. .

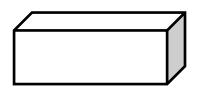
• Complete the missing information in the table.

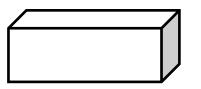


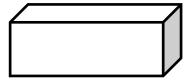


Number of Layers	Cubes in Each Layer	Volume of the Prism
		cubic cm
		cubic cm
		cubic cm

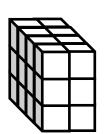
. . Number of

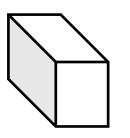




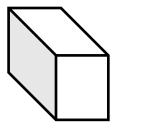


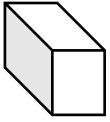
b.





Number of Layers	Number of Cubes in Each Layer	Volume of the Prism
		cubic cm
		cubic cm
		cubic cm

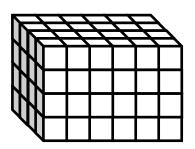




COMMON CORE Lesson 3: Date: Compose and decompose right rectangular prisms using layers. 10/21/14



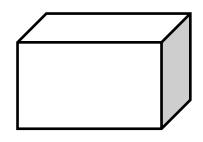
2. Josh and Jonah were finding the volume of the prism to the right. The boys agree that 4 layers can be added together to find the volume. Josh says that he can see on the end of the prism that each layer will have 16 cubes in it. Jonah says that each layer has 24 cubes in it. Who is right? Explain how you know using words, numbers, and/or pictures.



3. Marcos makes a prism 1 inch by 5 inches by 5 inches. He then decides to create layers equal to his first one. Fill in the chart below, and explain how you know the volume of each new prism.

Number of Layers	Volume	Explanation
2		
4		
7		

4. Imagine the rectangular prism below is 6 meters long, 4 meters tall, and 2 meters wide. Draw horizontal lines to show how the prism could be decomposed into layers that are 1 meter in height.



It has _____ layers from bottom to top.

Each layer contains _____ cubic units.

The volume of this prism is _____.



Lesson 3: Date:

Compose and decompose right rectangular prisms using layers. 10/21/14



Date _____

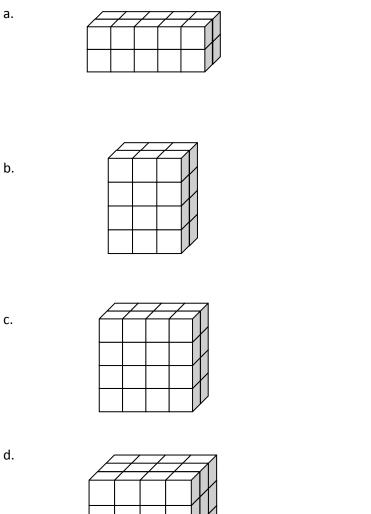
Length: _____ cm Width: cm

Height: _____ cm Volume: _____ cm³

Length: _____ cm

Width: _____ cm Height: _____ cm Volume: _____ cm³

1. Each rectangular prism is built from centimeter cubes. State the dimensions, and find the volume.



Width: _____ cm Height: _____ cm Volume: _____ cm³ Length: _____ cm Width: _____ cm Height: _____ cm Volume: _____ cm³

Length: _____ cm

2. Write a multiplication sentence that you could use to calculate the volume for each rectangular prism in Problem 1. Include the units in your sentences.

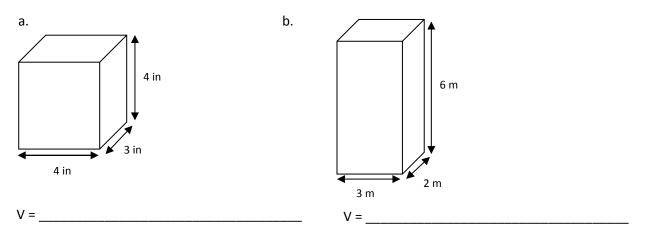
a. _____ b. _____ c. _____ d. _____



Lesson 4: Date: Use multiplication to calculate volume. 10/21/14

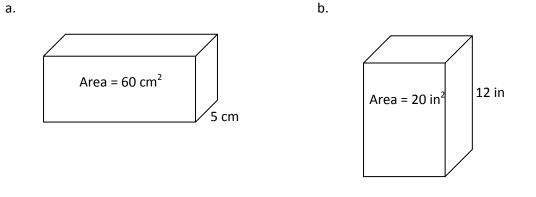


3. Calculate the volume of each rectangular prism. Include the units in your number sentences.



4. Tyron is constructing a box in the shape of a rectangular prism to store his baseball cards. It has a length of 10 centimeters, a width of 7 centimeters, and a height of 8 centimeters. What is the volume of the box?

5. Aaron says more information is needed to find the volume of the prisms. Explain why Aaron is mistaken, and calculate the volume of the prisms.





Use multiplication to calculate volume. 10/21/14



Date _____

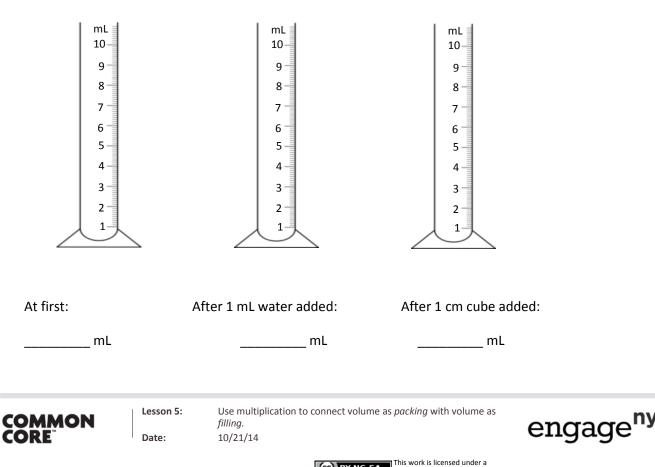
1. Determine the volume of two boxes on the table using cubes, and then confirm by measuring and multiplying.

Вох	Number of Cubes	Measurements			Valuma
Number	Packed	Length	Width	Height	Volume

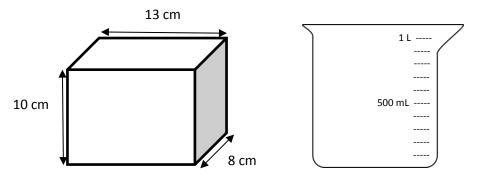
2. Using the same boxes from Problem 1, record the amount of liquid that your box can hold.

Box Number	Liquid the Box Can Hold
	mL
	mL

3. Shade to show the water in the beaker.



- 4. What conclusion can you draw about 1 cubic centimeter and 1 mL?
- 5. The tank, shaped like a rectangular prism, is filled to the top with water.



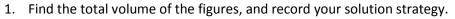
Will the beaker hold all the water in the tank? If yes, how much more will the beaker hold? If no, how much more will the tank hold than the beaker? Explain how you know.

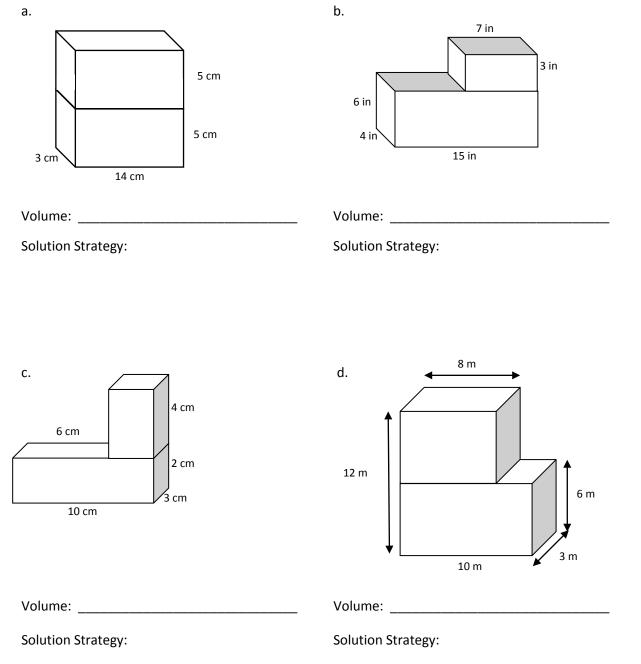
- 6. A rectangular fish tank measures 26 cm by 20 cm by 18 cm. The tank is filled with water to a depth of 15 cm.
 - a. What is the volume of the water in mL?
 - b. How many liters is that?
 - c. How many more mL of water will be needed to fill the tank to the top? Explain how you know.
- 7. A rectangular container is 25 cm long and 20 cm wide. If it holds 1 liter of water when full, what is its height?





Date _____



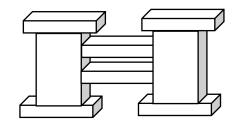




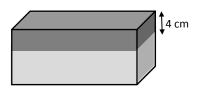
Find the total volume of solid figures composed of two non-overlapping rectangular prisms. 10/21/14



2. A sculpture (pictured below) is made of two sizes of rectangular prisms. One size measures 13 in by 8 in by 2 in. The other size measures 9 in by 8 in by 18 in. What is the total volume of the sculpture?



- 3. The combined volume of two identical cubes is 128 cubic centimeters. What is the side length of each cube?
- 4. A rectangular tank with a base area of 24 cm² is filled with water and oil to a depth of 9 cm. The oil and water separate into two layers when the oil rises to the top. If the thickness of the oil layer is 4 cm, what is the volume of the water?



- 5. Two rectangular prisms have a combined volume of 432 cubic feet. Prism A has half the volume of Prism B.
 - a. What is the volume of Prism A? Prism B?
 - b. If Prism A has a base area of 24 ft², what is the height of Prism A?
 - c. If Prism B's base is $\frac{2}{3}$ the area of Prism A's base, what is the height of Prism B?



Name

Date _____

Geoffrey builds rectangular planters.

1. Geoffrey's first planter is 8 feet long and 2 feet wide. The container is filled with soil to a height of 3 feet in the planter. What is the volume of soil in the planter? Explain your work using a diagram.

2. Geoffrey wants to grow some tomatoes in four large planters. He wants each planter to have a volume of 320 cubic feet, but he wants them all to be different. Show four different ways Geoffrey can make these planters, and draw diagrams with the planters' measurements on them.

Planter A	Planter B
Planter C	Planter D



Lesson 7: Date: Solve word problems involving the volume of rectangular prisms with whole number edge lengths. 10/21/14



3. Geoffrey wants to make one planter that extends from the ground to just below his back window. The window starts 3 feet off the ground. If he wants the planter to hold 36 cubic feet of soil, name one way he could build the planter so it is not taller than 3 feet. Explain how you know.

- 4. After all of this gardening work, Geoffrey decides he needs a new shed to replace the old one. His current shed is a rectangular prism that measures 6 feet long by 5 feet wide by 8 feet high. He realizes he needs a shed with 480 cubic feet of storage.
 - a. Will he achieve his goal if he doubles each dimension? Why or why not?

b. If he wants to keep the height the same, what could the other dimensions be for him to get the volume he wants?

c. If he uses the dimensions in Part (b), what could be the area of the new shed's floor?





Date _____

Using the box patterns, construct a sculpture containing at least 5, but not more than 7, rectangular prisms that meets the following requirements in the table below.

1.	My sculpture has 5 to 7 rectangular prisms.	Number of prisms:
2.	Each prism is labeled with a letter, dimensic	ons, and volume.
	Prism A by by	Volume =
	Prism B by by	Volume =
	Prism C by by	Volume =
	Prism D by by	Volume =
	Prism E by by	Volume =
	Prism by by by	Volume =
	Prism by by by	Volume =
3.	Prism D has $\frac{1}{2}$ the volume of prism	Prism D Volume =
5.		Prism Volume =
4.	Prism E has $\frac{1}{3}$ the volume of prism	Prism E Volume =
4.	3	Prism Volume =
	The total volume of all the prisms is 1,000	Total volume:
	cubic centimeters or less.	Show calculations:
5.		



Lesson 8: Date: Apply concepts and formulas of volume to design a sculpture using rectangular prisms within given parameters. 10/21/14



Date _____

I reviewed project number ______.

Use the rubric below to evaluate your friend's project. Ask questions and measure the parts to determine whether your friend has all the required elements. Respond to the prompt in italics in the third column. The final column can be used to write something you find interesting about that element if you like.

Space is provided beneath the rubric for your calculations.

	Requirement	Element present? (√)	Specifics of Element	Notes
1.	Sculpture has 5 to 7 prisms.		# of prisms:	
2.	All prisms are labeled with a letter.		Write letters used:	
3.	All prisms have correct dimensions with units written on the top.		List any prisms with incorrect dimensions or units:	
4.	All prisms have correct volume with units written on top.		List any prism with incorrect dimensions or units:	
5.	Prism D has $\frac{1}{2}$ the volume of another prism.		Record on next page:	
6.	Prism E has $\frac{1}{3}$ the volume of another prism.		Record on next page:	
7.	The total volume of all the parts together is 1,000 cubic units or less.		Total volume:	

Calculations:

Apply concepts and formulas of volume to design a sculpture using rectangular prisms within given parameters. 10/21/14



8. Measure the dimensions of each prism. Calculate the volume of each prism and the total volume. Record that information in the table below. If your measurements or volume differ from those listed on the project, put a star by the prism label in the table below, and record on the rubric.

Prism	Dimensions	Volume
А	by by	
В	by by	
с	by by	
D	by by	
E	by by	
	by by	
	by by	

- 9. Prism D's volume is $\frac{1}{2}$ that of Prism _____. Show calculations below.
- 10. Prism E's volume is $\frac{1}{3}$ that of Prism _____. Show calculations below.

11. Total volume of sculpture: ______. Show calculations below.



Apply concepts and formulas of volume to design a sculpture using rectangular prisms within given parameters. 10/21/14



5.C.10

Name	e Date	
Sketch the rectangles and your tiling. Write the dir Then, use multiplication to confirm the area. Show		
. Rectangle A:	Rectangle A is	
	units long	units wide
	Area = units ²	
2. Rectangle B:	3. Rectangle C:	
Rectangle B is	Rectangle C is	
units long units wide	units long	units wide
Area = units ²	Area = units ²	
. Rectangle D:	5. Rectangle E:	
Rectangle D is	Rectangle E is	
units long units wide	units long	units wide
Area = units ²	Area = units ²	
	tangles with whole-by-mixed and I number side lengths by tiling, record by drawing, en multiplication.	ngage ^r
Date: 10/21/14	Creative Commons Attribution-NonCommercial	

6. The rectangle to the right is composed of squares that measure $2\frac{1}{4}$ inches on each side. What is its area in square inches? Explain your thinking using pictures and numbers.

7. A rectangle has a perimeter of $35\frac{1}{2}$ feet. If the length is 12 feet, what is the area of the rectangle?



Lesson 10:

Date:

Find the area of rectangles with whole-by-mixed and whole-by-fractional number side lengths by tiling, record by drawing, and relate to fraction multiplication. 10/21/14



Name		Date	Date	
Draw the rectangle and your tiling. Write the dimensions and the units you counted in the blanks. Then, use multiplication to confirm the area. Show your work.				
1. Rectangle A:		2. Rectangle B:		
Rectangle A is		Rectangle B is		
units long	units wide	units long	units wide	
Area = units ²		Area = units ²		
3. Rectangle C:		4. Rectangle D:		
Rectangle C is units long	units wide	Rectangle D is units long	units wide	
Area = units ²		Area = units ²		
COMMON CORE Lesson 11: Date:		angles with mixed-by-mixed and fraction-by- by tiling, record by drawing, and relate to m.	engage ^{ny}	

5.C.23

- 5. Colleen and Caroline each built a rectangle out of square tiles placed in 3 rows of 5. Colleen used tiles that measured $1\frac{2}{3}$ cm squares. Caroline used tiles that measured $3\frac{1}{3}$ cm.
 - a. Draw the girls' rectangles, and label the lengths and widths of each.

b. What are the areas of the rectangles in square centimeters?

c. Compare the area of the rectangles.

6. A square has a perimeter of 51 inches. What is the area of the square?



Lesson 11:

Date:

Find the area of rectangles with mixed-by-mixed and fraction-byfraction side lengths by tiling, record by drawing, and relate to fraction multiplication. 10/21/14

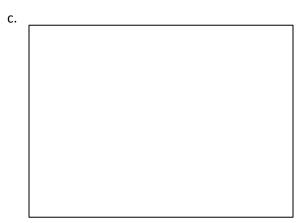


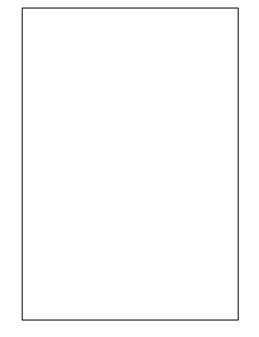
5.C.24

Date _____

- 1. Measure each rectangle with your inch ruler, and label the dimensions. Use the area model to find each area.
 - a. b.

d.



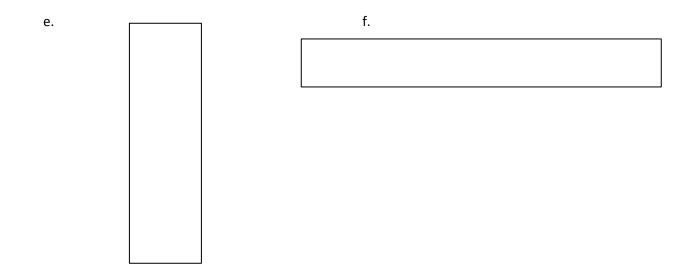




Lesson 12: Date:

Measure to find the area of rectangles with fractional side lengths. 10/21/14





- 2. Find the area of rectangles with the following dimensions. Explain your thinking using the area model.
 - a. $1 \text{ ft} \times 1\frac{1}{2} \text{ ft}$ b. $1\frac{1}{2} \text{ yd} \times 1\frac{1}{2} \text{ yd}$

c. $2\frac{1}{2}$ yd × $1\frac{3}{16}$ yd



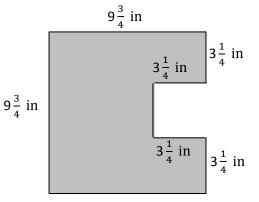
Measure to find the area of rectangles with fractional side lengths. 10/21/14



3. Hanley is putting carpet in her house. She wants to carpet her living room, which measures 15 ft × $12\frac{1}{3}$ ft. She also wants to carpet her dining room, which is $10\frac{1}{4}$ ft × $10\frac{1}{3}$ ft. How many square feet of carpet will she need to cover both rooms?

- 4. Fred cut a $9\frac{3}{4}$ -inch square of construction paper for an art project. He cut a square from the edge of the big rectangle whose sides measured $3\frac{1}{4}$ inches. (See picture below.)
 - a. What is the area of the smaller square that Fred cut out?

b. What is the area of the remaining paper?





Measure to find the area of rectangles with fractional side lengths. 10/21/14



5.C.36

Date _____

1. Find the area of the following rectangles. Draw an area model if it helps you.

a.
$$\frac{5}{4}$$
 km × $\frac{12}{5}$ km b. $16\frac{1}{2}$ m × $4\frac{1}{5}$ m

c.
$$4\frac{1}{3}$$
 yd × $5\frac{2}{3}$ yd d. $\frac{7}{8}$ mi × $4\frac{1}{3}$ mi

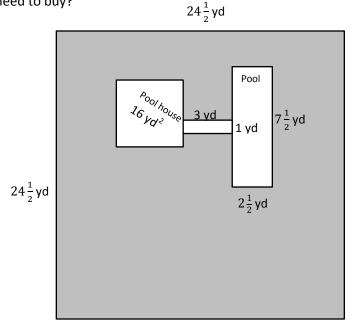
2. Julie is cutting rectangles out of fabric to make a quilt. If the rectangles are $2\frac{3}{5}$ inches wide and $3\frac{2}{3}$ inches long, what is the area of four such rectangles?



Lesson 13: Date: Multiply mixed number factors, and relate to the distributive property and the area model. 10/21/14



3. Mr. Howard's pool is connected to his pool house by a sidewalk as shown. He wants to buy sod for the lawn, shown in gray. How much sod does he need to buy?





Lesson 13: Date: Multiply mixed number factors, and relate to the distributive property and the area model. 10/21/14

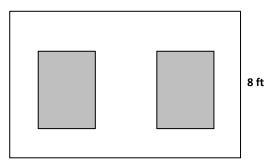
engage^{ny} 5.c.48

Name

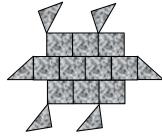
Date _____

1. George decided to paint a wall with two windows. Both windows are $3\frac{1}{2}$ ft by $4\frac{1}{2}$ ft rectangles. Find the area the paint needs to cover.

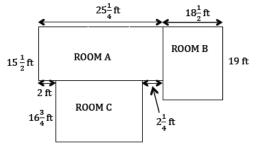
 $12\frac{7}{8}$ ft



2. Joe uses square tiles, some of which he cuts in half, to make the figure below. If each square tile has a side length of $2\frac{1}{2}$ inches, what is the total area of the figure?



 All-In-One Carpets is installing carpeting in three rooms. How many square feet of carpet are needed to carpet all three?





Lesson 14: Date: Solve real world problems involving area of figures with fractional side lengths using visual models and/or equations. 10/21/14



5.C.61

- 4. Mr. Johnson needs to buy sod for his front lawn.
 - a. If the lawn measures $36\frac{2}{3}$ ft by $45\frac{1}{6}$ ft, how many square feet of sod will he need?

b. If sod is only sold in whole square feet, how much will Mr. Johnson have to pay?

Sod Prices		
Area	Price per square foot	
First 1,000 sq ft	\$0.27	
Next 500 sq ft	\$0.22	
Additional square feet	\$0.19	

- 5. Jennifer's class decides to make a quilt. Each of the 24 students will make a quilt square that is 8 inches on each side. When they sew the quilt together, every edge of each quilt square will lose $\frac{3}{4}$ of an inch.
 - a. Draw one way the squares could be arranged to make a rectangular quilt. Then, find the perimeter of your arrangement.

b. Find the area of the quilt.

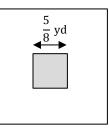




Name	Date	

1. The length of a flowerbed is 4 times as long as its width. If the width is $\frac{3}{8}$ meter, what is the area?

- 2. Mrs. Johnson grows herbs in square plots. Her basil plot measures $\frac{5}{8}$ yd on each side.
 - a. Find the total area of the basil plot.



b. Mrs. Johnson puts a fence around the basil. If the fence is 2 ft from the edge of the garden on each side, what is the perimeter of the fence?





c. What is the total area that the fence encloses?

- 3. Janet bought 5 yards of fabric $2\frac{1}{4}$ feet wide to make curtains. She used $\frac{1}{3}$ of the fabric to make a long set of curtains and the rest to make 4 short sets.
 - a. Find the area of the fabric she used for the long set of curtains.

b. Find the area of the fabric she used for each of the short sets.



Lesson 15: Date:



- 4. Some wire is used to make 3 rectangles: A, B, and C. Rectangle B's dimensions are $\frac{3}{5}$ cm larger than Rectangle A's dimensions, and Rectangle C's dimensions are $\frac{3}{5}$ cm larger than Rectangle B's dimensions. Rectangle A is 2 cm by $3\frac{1}{5}$ cm.
 - a. What is the total area of all three rectangles?

b. If a 40 cm coil of wire was used to form the rectangles, how much wire is left?





Date _____

1. Draw a pair of parallel lines in each box. Then, use the parallel lines to draw a trapezoid with the following:

a. No right angles	b. Only 1 obtuse angle
c. 2 obtuse angles	d. At least 1 right angle



Draw trapezoids to clarify their attributes, and define trapezoids based on those attributes. 10/21/14



- 2. Use the trapezoids you drew to complete the tasks below.
 - a. Measure the angles of the trapezoid with your protractor, and record the measurements on the figures.
 - b. Use a marker or crayon to circle pairs of angles inside each trapezoid with a sum equal to 180°. Use a different color for each pair.
- 3. List the properties that are shared by all the trapezoids that you worked with today.

4. When can a quadrilateral also be called a trapezoid?

- 5. Follow the directions to draw one last trapezoid.
 - a. Draw a segment \overline{AB} parallel to the bottom of this page that is 5 cm long.
 - b. Draw two 55° angles with vertices at A and B so that an isosceles triangle is formed with \overline{AB} as the base of the triangle.
 - c. Label the top vertex of your triangle as *C*.
 - d. Use your set square to draw a line parallel to \overline{AB} that intersects both \overline{AC} and \overline{BC} .
 - e. Shade the trapezoid that you drew.





Date _____

1. Draw a parallelogram in each box with the attributes listed.

a. No right angles.	b. At least 2 right angles.
c. Equal sides with no right angles.	d. All sides equal with at least 2 right angles.



Lesson 17: Date: Draw parallelograms to clarify their attributes, and define parallelograms based on those attributes. 10/21/14



5.D.25

- 2. Use the parallelograms you drew to complete the tasks below.
 - a. Measure the angles of the parallelogram with your protractor, and record the measurements on the figures.
 - b. Use a marker or crayon to circle pairs of angles inside each parallelogram with a sum equal to 180°.
 Use a different color for each pair.
- 3. Draw another parallelogram below.

- a. Draw the diagonals and measure their lengths. Record the measurements to the side of your figure.
- b. Measure the length of each of the four segments of the diagonals from the vertices to the point of intersection of the diagonals. Color the segments that have the same length the same color. What do you notice?
- 4. List the properties that are shared by all of the parallelograms that you worked with today.

- a. When can a quadrilateral also be called a parallelogram?
- b. When can a trapezoid also be called a parallelogram?



Draw parallelograms to clarify their attributes, and define parallelograms based on those attributes. 10/21/14



Date

1. Draw the figures in each box with the attributes listed.

a. Rhombus with no right angles	b. Rectangle with not all sides equal
c. Rhombus with 1 right angle	d. Rectangle with all sides equal

- 2. Use the figures you drew to complete the tasks below.
 - a. Measure the angles of the figures with your protractor, and record the measurements on the figures.
 - b. Use a marker or crayon to circle pairs of angles inside each figure with a sum equal to 180°. Use a different color for each pair.



Draw rectangles and rhombuses to clarify their attributes, and define rectangles and rhombuses based on those attributes. 10/21/14



5.D.41

3. Draw a rhombus and a rectangle below.

- a. Draw the diagonals and measure their lengths. Record the measurements on the figure.
- b. Measure the length of each segment of the diagonals from the vertex to the intersection point of the diagonals. Using a marker or crayon, color segments that have the same length. Use a different color for each different length.
- 4.
- a. List the properties that are shared by all of the rhombuses that you worked with today.

b. List the properties that are shared by all of the rectangles that you worked with today.

- c. When can a trapezoid also be called a rhombus?
- d. When can a parallelogram also be called a rectangle?
- e. When can a quadrilateral also be called a rhombus?



Draw rectangles and rhombuses to clarify their attributes, and define rectangles and rhombuses based on those attributes. 10/21/14



Name

Date _____

1. Draw the figures in each box with the attributes listed. If your figure has more than one name, write it in the box.

a. Rhombus with 2 right angles	b. Kite with all sides equal
c. Kite with 4 right angles	d. Kite with 2 pairs of adjacent sides equal (The pairs are not equal to each other.)

- 2. Use the figures you drew to complete the tasks below.
 - a. Measure the angles of the figures with your protractor, and record the measurements on the figures.
 - b. Use a marker or crayon to circle pairs of congruent angles inside each figure. Use a different color for each pair.





- 3.
- a. List the properties shared by all of the squares that you worked with today.

b. List the properties shared by all of the kites that you worked with today.

- c. When can a rhombus also be called a square?
- d. When can a kite also be called a square?

e. When can a trapezoid also be called a kite?



Draw kites and squares to clarify their attributes, and define kites and squares based on those attributes. 10/21/14



Date _____

1. True or false. If the statement is false, rewrite it to make it true.

		Т	F
a.	All trapezoids are quadrilaterals.		
b.	All parallelograms are rhombuses.		
с.	All squares are trapezoids.		
d.	All rectangles are squares.		
e.	Rectangles are always parallelograms.		
0.			
f.	All parallelograms are trapezoids.		
g.	All rhombuses are rectangles.		
h.	Kites are never rhombuses.		
i.	All squares are kites.		
j.	All kites are squares.		
k.	All rhombuses are squares.		



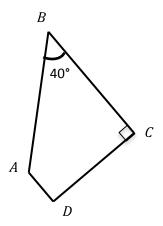
Classify two-dimensional figures in a hierarchy based on properties. 10/21/14



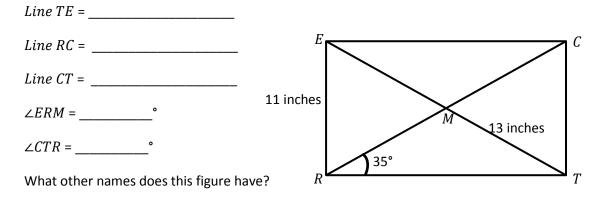
5.D.70

- 2. Fill in the blanks.
 - a. *ABCD* is a trapezoid. Find the measurements listed below.
 - ∠*A* = _____°
 - ∠D = ____°

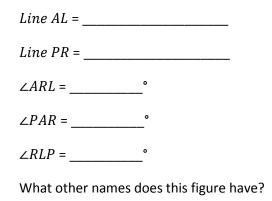
What other names does this figure have?

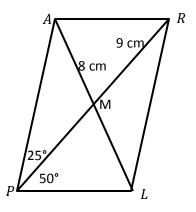


b. *RECT* is a rectangle. Find the measurements listed below.



c. *PARL* is a parallelogram. Find the measurements listed below.







Lesson 20: Date: Classify two-dimensional figures in a hierarchy based on properties. 10/21/14



Date _____

1. Write the number on your task card and a summary of the task in the blank. Then, draw the figure in the box. Label your figure with as many names as you can. Circle the most specific name.

Task #:	Task # ·
	Task #:
Task #:	Task #:
Task # ·	Task #:
Task #:	



Lesson 21: Date:

10/21/14

Draw and identify varied two-dimensional figures from given attributes.



2. John says that because rhombuses do not have perpendicular sides, they cannot be rectangles. Explain his error in thinking.

3. Jack says that because kites don't have parallel sides, a square is not a kite. Explain his error in thinking.



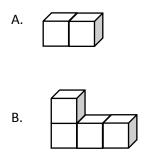
Lesson 21: Date: Draw and identify varied two-dimensional figures from given attributes. 10/21/14

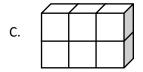


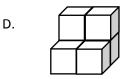
5.D.85

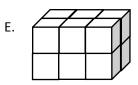
Date _____

1. The following solids are made up of 1 cm cubes. Find the total volume of each figure, and write it in the chart below.









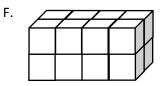


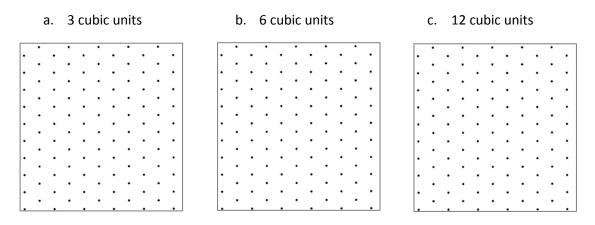
Figure	Volume	Explanation
А		
В		
С		
D		
E		
F		



Lesson 1: Date: Explore volume by building with and counting unit cubes. 10/21/14



2. Draw a figure with the given volume on the dot paper.



3. John built and drew a structure that has a volume of 5 cubic centimeters. His little brother tells him he made a mistake because he only drew 4 cubes. Help John explain to his brother why his drawing is accurate.



4. Draw another figure below that represents a structure with a volume of 5 cubic centimeters.

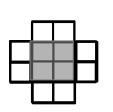
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COMMON CORE Lesson 1: Date: Explore volume by building with and counting unit cubes. 10/21/14



 Name
 Date

1. Make the following boxes on centimeter grid paper. Cut and fold each to make 3 open boxes, taping them so they hold their shapes. How many cubes would fill each box? Explain how you found the number.

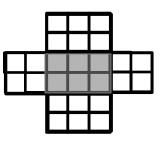


Number of cubes: _____

Number of cubes: _____

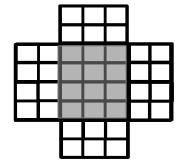
b.

a.



c.

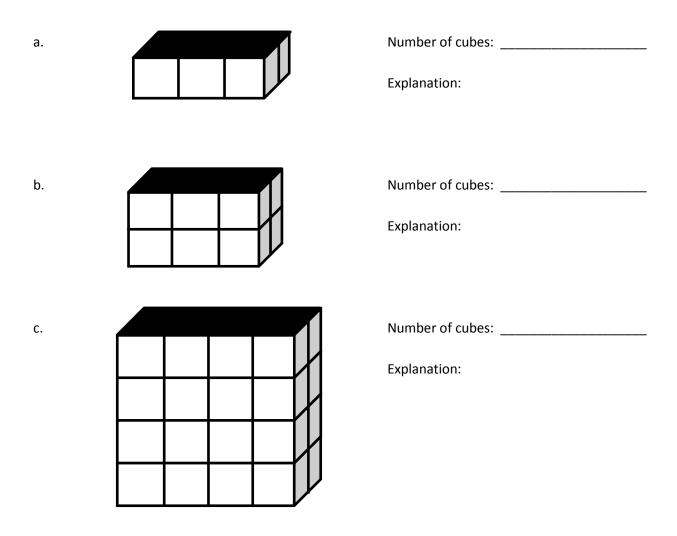




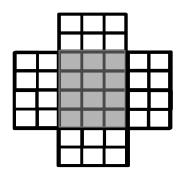
COMMON CORE Lesson 2: Date: Find the volume of a right rectangular prism by packing with cubic units and counting. 10/21/14



2. How many centimeter cubes would fit inside each box? Explain your answer using words and diagrams on the box. (The figures are not drawn to scale.)



3. The box pattern below holds 24 1-centimeter cubes. Draw two different box patterns that would hold the same number of cubes.



COMMON CORE Lesson 2: Date: Find the volume of a right rectangular prism by packing with cubic units and counting. 10/21/14

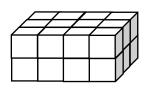


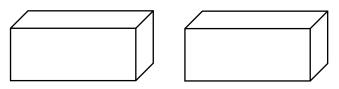
a.

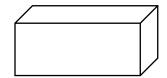
Date _____

- 1. Use the prisms to find the volume.
 - The rectangular prisms pictured below were constructed with 1 cm cubes.
 - Decompose each prism into layers in three different ways, and show your thinking on the blank prisms.
 - Complete each table.

Number of Layers	Number of Cubes in Each Layer	Volume of the Prism
		cubic cm
		cubic cm
		cubic cm

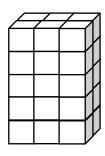


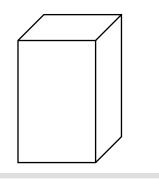


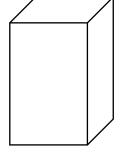


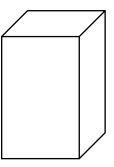
b.

Number of Layers	Number of Cubes in Each Layer	Volume of the Prism
		cubic cm
		cubic cm
		cubic cm







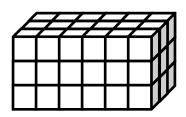


COMMON CORE Lesson 3: Date:

Compose and decompose right rectangular prisms using layers. 10/21/14



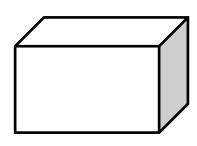
 Stephen and Chelsea want to increase the volume of this prism by 72 cubic centimeters. Chelsea wants to add eight layers, and Stephen says they only need to add four layers. Their teacher tells them they are both correct. Explain how this is possible.



3. Juliana makes a prism 4 inches across and 4 inches wide but only 1 inch tall. She then decides to create layers equal to her first one. Fill in the chart below, and explain how you know the volume of each new prism.

Number of Layers	Volume	Explanation
3		
5		
7		

4. Imagine the rectangular prism below is 4 meters long, 3 meters tall, and 2 meters wide. Draw horizontal lines to show how the prism could be decomposed into layers that are 1 meter in height.



It has _____ layers from left to right.

Each layer contains _____ cubic units.

The volume of this prism is _____.



Lesson 3: Date:

Compose and decompose right rectangular prisms using layers. 10/21/14

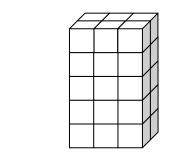


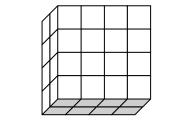
b.

Date _____

1. Each rectangular prism is built from centimeter cubes. State the dimensions and find the volume.

a.



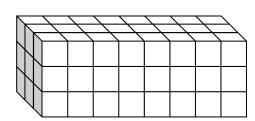


Length: _____ cm Width: _____ cm Height: _____ cm Volume: _____ cm³ Length: _____ cm Width: _____ cm Height: _____ cm Volume: _____ cm³ Length: _____ cm Width: _____ cm

Height: _____ cm Volume: _____ cm³

d.

c.



Length:	cm
Width:	cm
Height:	cm
Volume:	cm ³

2. Write a multiplication sentence that you could use to calculate the volume for each rectangular prism in Problem 1. Include the units in your sentences.

a. _____ b. _____ d. _____ C. _____

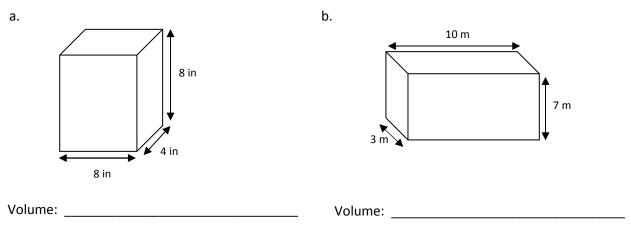


Lesson 4: Date:

Use multiplication to calculate volume. 10/21/14



3. Calculate the volume of each rectangular prism. Include the units in your number sentences.



4. Mrs. Johnson is constructing a box in the shape of a rectangular prism to store clothes for the summer. It has a length of 28 inches, a width of 24 inches, and a height of 30 inches. What is the volume of the box?

- 5. Calculate the volume of each rectangular prism using the information that is provided.
 - a. Face area: 56 square meters

Height: 4 meters

b. Face area: 169 square inches

Height: 14 inches

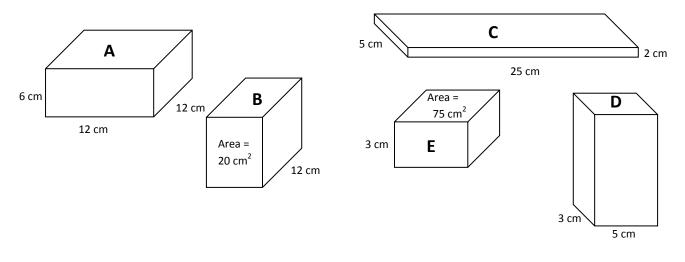


Use multiplication to calculate volume. 10/21/14



Na	me Dat	e		
1.	Johnny filled a container with 30 centimeter cubes. Shade the beaker to show how much water the container will hold. Explain how you know.		100 mL 80 mL 60 mL 40 mL 20 mL	7

2. A beaker contains 250 mL of water. Jack wants to pour the water into a container that will hold the water. Which of the containers pictured below could he use? Explain your choices.



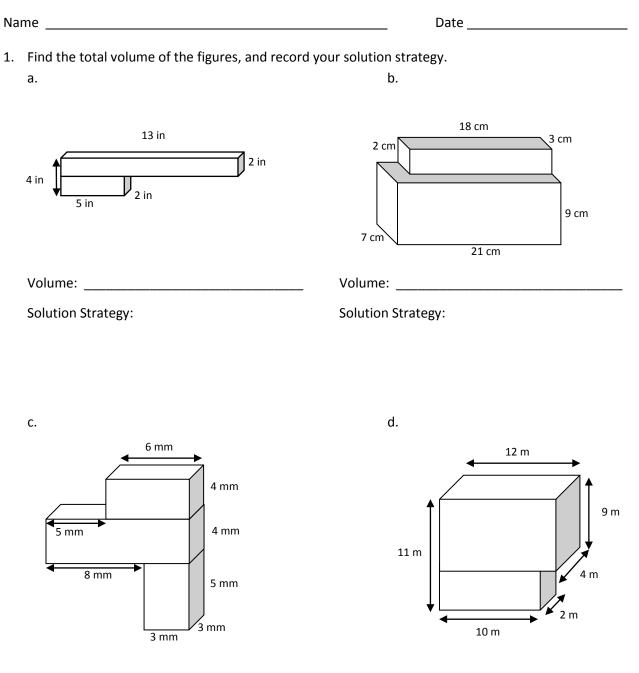
3. On the back of this paper, describe the details of the activities you did in class today. Include what you learned about cubic centimeters and milliliters. Give an example of a problem you solved with an illustration.



Use multiplication to connect volume as *packing* with volume as *filling.* 10/21/14

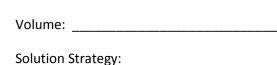


5.B.27



Solution Strategy:

Volume:

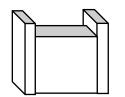




Lesson 6: Date: Find the total volume of solid figures composed of two non-overlapping rectangular prisms. 10/21/14

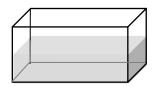


2. A planting box (pictured below) is made of two sizes of rectangular prisms. One type of prism measures 3 inches by 6 inches by 14 inches. The other type measures 15 inches by 5 inches by 10 inches. What is the total volume of three such boxes?



3. The combined volume of two identical cubes is 250 cubic centimeters. What is the measure of one cube's edge?

4. A fish tank has a base area of 45 cm² and is filled with water to a depth of 12 cm. If the height of the tank is 25 cm, how much more water will be needed to fill the tank to the brim?



5. Three rectangular prisms have a combined volume of 518 cubic feet. Prism A has one-third the volume of Prism B, and Prisms B and C have equal volume. What is the volume of each prism?



Lesson 6: Date: Find the total volume of solid figures composed of two non-overlapping rectangular prisms. 10/21/14



5.B.40

Name

Date _____

Wren makes some rectangular display boxes.

1. Wren's first display box is 6 inches long, 9 inches wide, and 4 inches high. What is the volume of the display box? Explain your work using a diagram.

2. Wren wants to put some artwork into three shadow boxes. She knows they all need a volume of 60 cubic inches, but she wants them all to be different. Show three different ways Wren can make these boxes by drawing diagrams and labeling the measurements.

Shadow Box A	Shadow Box B
Shadow Box C	



Solve word problems involving the volume of rectangular prisms with whole number edge lengths. 10/21/14



5.B.53

3. Wren wants to build a box to organize her scrapbook supplies. She has a stencil set that is 12 inches wide that needs to lay flat in the bottom of the box. The supply box must also be no taller than 2 feet. Name one way she could build a supply box with a volume of 72 cubic inches.

- 4. After all of this organizing, Wren decides she also needs more storage for her soccer equipment. Her current storage box measures 1 foot long by 2 feet wide by 2 feet high. She realizes she needs to replace it with a box with 12 cubic feet of storage, so she doubles the width.
 - a. Will she achieve her goal if she does this? Why or why not?
 - b. If she wants to keep the height the same, what could the other dimensions be for a 12-cubic-foot storage box?
 - c. If she uses the dimensions in Part (b), what is the area of the new storage box's floor?

d. How has the area of the bottom in her new storage box changed? Explain how you know.





Name

Date _____

1. I have a prism with the dimensions of 6 cm by 12 cm by 15 cm. Calculate the volume of the prism, and then give the dimensions of three different prisms that each have $\frac{1}{3}$ of the volume.

	Length	Width	Height	Volume
Original Prism	6 cm	12 cm	15 cm	
Prism 1				
Prism 2				
Prism 3				

2. Sunni's bedroom has the dimensions of 11 ft by 10 ft by 10 ft. Her den has the same height but double the volume. Give two sets of the possible dimensions of the den and the volume of the den.



Apply concepts and formulas of volume to design a sculpture using rectangular prisms within given parameters. 10/21/14



Name	Date	

- 1. Find three rectangular prisms around your house. Describe the item you are measuring (cereal box, tissue box, etc.), and then measure each dimension to the nearest whole inch and calculate the volume.
 - a. Rectangular Prism A

Item:

Height:		inches
---------	--	--------

Length: _____ inches

Width: _____ inches

Volume:	_ cubic inches
---------	----------------

b. Rectangular Prism B

Item:

Height: _____ inches

Length: _____ inches

Width: _____ inches

Volume: _____ cubic inches

c. Rectangular Prism C

Item:

Height: _____ inches

Length: _____ inches

Width:		inches
--------	--	--------

Volume: _____ cubic inches



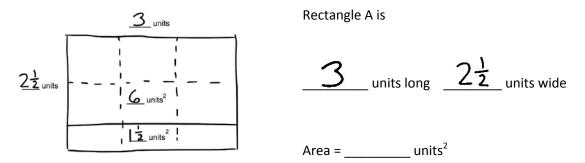
Lesson 9: Date: Apply concepts and formulas of volume to design a sculpture using rectangular prisms within given parameters. 10/21/14



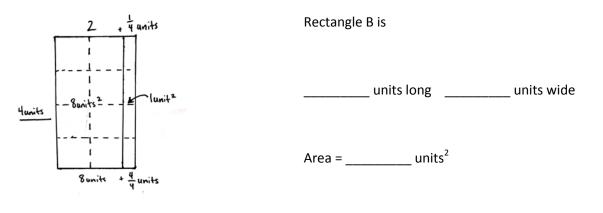
5.B.77

Date _____

- 1. John tiled some rectangles using square units. Sketch the rectangles if necessary. Fill in the missing information, and then confirm the area by multiplying.
 - a. Rectangle A:

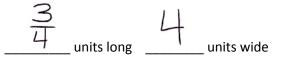


b. Rectangle B:



c. Rectangle C:

Rectangle C is





Lesson 10:

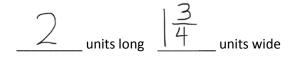
Date:

Find the area of rectangles with whole-by-mixed and whole-by-fractional number side lengths by tiling, record by drawing, and relate to fraction multiplication. 10/21/14



d. Rectangle D:

Rectangle D is



Area = _____ units²

2. Rachel made a mosaic from different color rectangular tiles. Three tiles measured $3\frac{1}{2}$ inches × 3 inches. Six tiles measured 4 inches $\times 3\frac{1}{4}$ inches. What is the area of the whole mosaic in square inches?

3. A garden box has a perimeter of $27\frac{1}{2}$ feet. If the length is 9 feet, what is the area of the garden box?



Lesson 10:

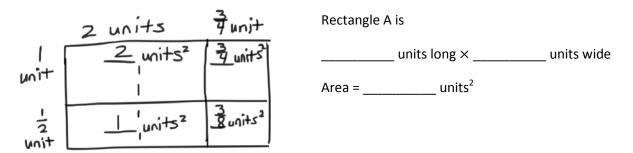
Date:



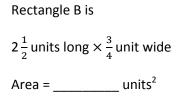
Name

Date _____

- 1. Kristen tiled the following rectangles using square units. Sketch the rectangles, and find the areas. Then, confirm the area by multiplying. Rectangle A has been sketched for you.
 - a. Rectangle A:



b. Rectangle B:



c. Rectangle C:



$$3\frac{1}{3}$$
 units long $\times 2\frac{1}{2}$ units wide
Area = _____ units²

COMMON CORE Lesson 11:

Date:

Find the area of rectangles with mixed-by-mixed and fraction-byfraction side lengths by tiling, record by drawing, and relate to fraction multiplication. 10/21/14



d. Rectangle D:

Rectangle D is

 $3\frac{1}{2}$ units long $\times 2\frac{1}{4}$ units wide

Area = _____ units²

2. A square has a perimeter of 25 inches. What is the area of the square?



Lesson 11:

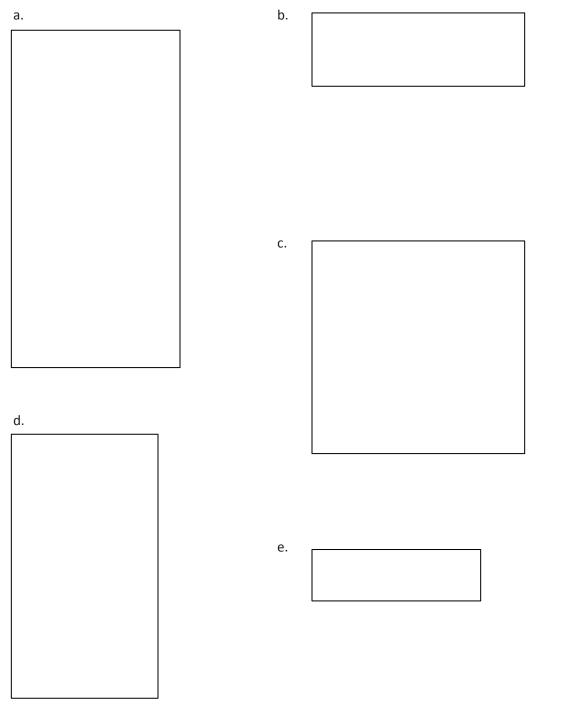
Date:

Find the area of rectangles with mixed-by-mixed and fraction-byfraction side lengths by tiling, record by drawing, and relate to fraction multiplication. 10/21/14



Date _____

1. Measure each rectangle with your inch ruler, and label the dimensions. Use the area model to find the area.





Lesson 12: Date: Measure to find the area of rectangles with fractional side lengths. 10/21/14

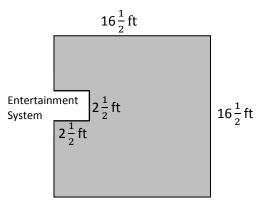


2. Find the area of rectangles with the following dimensions. Explain your thinking using the area model.

a.
$$2\frac{1}{4}$$
 yd $\times \frac{1}{4}$ yd b. $2\frac{1}{2}$ ft $\times 1\frac{1}{4}$ ft

3. Kelly buys a tarp to cover the area under her tent. The tent is 4 feet wide and has an area of 31 square feet. The tarp she bought is $5\frac{1}{3}$ feet by $5\frac{3}{4}$ feet. Can the tarp cover the area under Kelly's tent? Draw a model to show your thinking.

- 4. Shannon and Leslie want to carpet a $16\frac{1}{2}$ ft by $16\frac{1}{2}$ ft square room. They can't put carpet under an entertainment system that juts out. (See the drawing below.)
 - a. In square feet, what is the area of the space with no carpet?



b. How many square feet of carpet will Shannon and Leslie need to buy?



Measure to find the area of rectangles with fractional side lengths. 10/21/14



Date _____

1. Find the area of the following rectangles. Draw an area model if it helps you.

a.
$$\frac{8}{3}$$
 cm $\times \frac{24}{4}$ cm b. $\frac{32}{5}$ ft $\times 3\frac{3}{8}$ ft

c.
$$5\frac{4}{6}$$
 in $\times 4\frac{3}{5}$ in d. $\frac{5}{7}$ m $\times 6\frac{3}{5}$ m

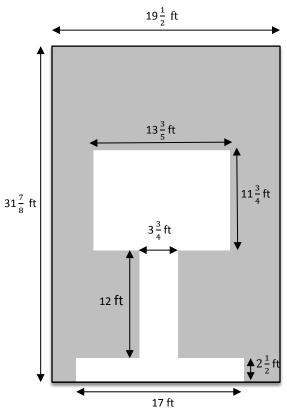
2. Chris is making a table top from some leftover tiles. He has 9 tiles that measure $3\frac{1}{8}$ inches long and $2\frac{3}{4}$ inches wide. What is the area he can cover with these tiles?



Lesson 13: Date: Multiply mixed number factors, and relate to the distributive property and the area model. 10/21/14



3. A hotel is recarpeting a section of the lobby. Carpet covers the part of the floor as shown below in gray. How many square feet of carpeting will be needed?



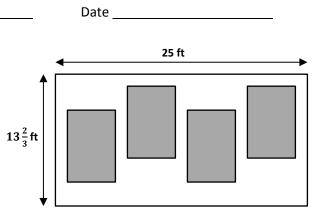


Lesson 13: Date: Multiply mixed number factors, and relate to the distributive property and the area model. 10/21/14

engage^{ny} 5.c.51

Name

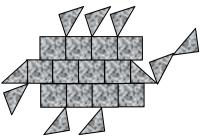
1. Mr. Albano wants to paint menus on the wall of his café in chalkboard paint. The gray area below shows where the rectangular menus will be. Each menu will measure 6 ft wide and $7\frac{1}{2}$ ft tall.



How many square feet of menu space will Mr. Albano have?

What is the area of wall space that is not covered by chalkboard paint?

2. Mr. Albano wants to put tiles in the shape of a dinosaur at the front entrance. He will need to cut some tiles in half to make the figure. If each square tile is $4\frac{1}{4}$ inches on each side, what is the total area of the dinosaur?



COMMON CORE Lesson 14: Date: Solve real world problems involving area of figures with fractional side lengths using visual models and/or equations. 10/21/14



3. A-Plus Glass is making windows for a new house that is being built. The box shows the list of sizes they must make.

15 windows $4\frac{3}{4}$ ft long and $3\frac{3}{5}$ ft wide
7 windows $2\frac{4}{5}$ ft wide and $6\frac{1}{2}$ ft long

How many square feet of glass will they need?

- 4. Mr. Johnson needs to buy seed for his backyard lawn.
 - If the lawn measures $40\frac{4}{5}$ ft by $50\frac{7}{8}$ ft, how many square feet of seed will he need?

One bag of seed will cover 500 square feet if he sets his seed spreader to its lowest setting and 300 square feet if he sets the spreader to its highest setting. How many bags of seed will he need if he uses the highest setting? The lowest setting?



Lesson 14: Date: Solve real world problems involving area of figures with fractional side lengths using visual models and/or equations. 10/21/14

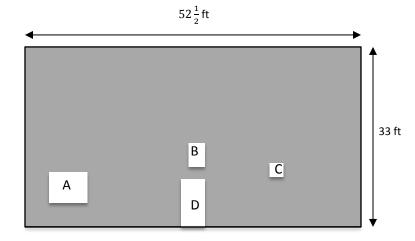


Name	Date

1. The width of a picnic table is 3 times its length. If the length is $\frac{5}{6}$ yd long, what is the area in square feet?

 A painting company will paint this wall. The homeowner gives them the following dimensions:

> Window A is $6\frac{1}{4}$ ft × $5\frac{3}{4}$ ft. Window B is $3\frac{1}{8}$ ft × 4 ft. Window C is $9\frac{1}{2}$ ft². Door D is 8 ft × 4 ft.



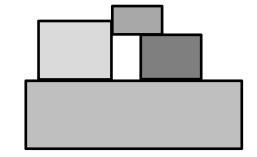
What is the area of the painted part of the wall?



Lesson 15: Date: Solve real world problems involving area of figures with fractional side lengths using visual models and/or equations. 10/21/14



3. A decorative wooden piece is made up of four rectangles as shown to the right. The smallest rectangle measures $4\frac{1}{2}$ inches by $7\frac{3}{4}$ inches. If $2\frac{1}{4}$ inches are added to each dimension as the rectangles get larger, what is the total area of the entire piece?





Lesson 15: Date:

Solve real world problems involving area of figures with fractional side lengths using visual models and/or equations. 10/21/14



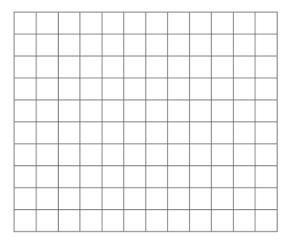
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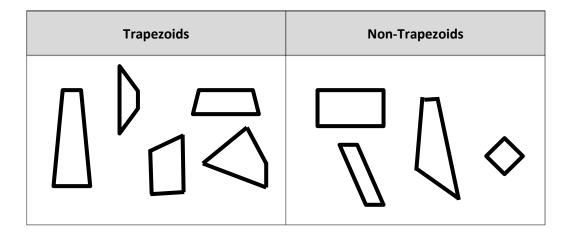
Date _____

- 1. Use a straightedge and the grid paper to draw:
 - a. A trapezoid with exactly 2 right angles.

b. A trapezoid with no right angles.



- 2. Kaplan incorrectly sorted some quadrilaterals into trapezoids and non-trapezoids as pictured below.
 - a. Circle the shapes that are in the wrong group, and tell why they are sorted incorrectly.



b. Explain what tools would be necessary to use to verify the placement of all the trapezoids.



Draw trapezoids to clarify their attributes, and define trapezoids based on those attributes. 10/21/14

3. Use a straightedge to draw an isosceles trapezoid on the grid paper.

			Image: Sector of the sector	Image: state stat	Image: Section of the section of th	Image: Second

a. Why is this shape called an isosceles trapezoid?

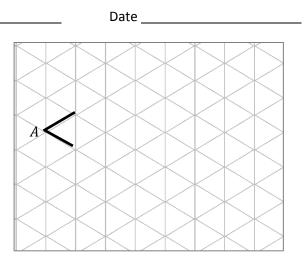


Draw trapezoids to clarify their attributes, and define trapezoids based on those attributes. 10/21/14

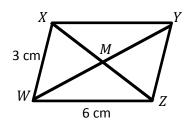


1. $\angle A$ measures 60°.

- a. Extend the rays of $\angle A$, and draw parallelogram *ABCD* on the grid paper.
- b. What are the measures of $\angle B$, $\angle C$, and $\angle D$?



- 2. *WXYZ* is a parallelogram not drawn to scale.
 - a. Using what you know about parallelograms, give the measure of sides XY and YZ.



- b. $\angle WXY = 113^\circ$. Use what you know about angles in a parallelogram to find the measure of the other angles.
 - ∠*XYZ* = _____°

∠*YZW* = _____°

∠*ZWX* = ____°

3. Jack measured some segments in Problem 2. He found that \overline{WY} = 8 cm and \overline{MZ} = 3 cm. Give the lengths of the following segments:

<i>WM</i> =	_ cm	MY =	cm
XM =	cm	XZ =	cm



Lesson 17: Date:

Draw parallelograms to clarify their attributes, and define parallelograms based on those attributes. 10/21/14



4. Using the properties of shapes, explain why all parallelograms are trapezoids.

5. Teresa says that because the diagonals of a parallelogram bisect each other, if one diagonal is 4.2 cm, the other diagonal must be half that length. Use words and pictures to explain Teresa's error.

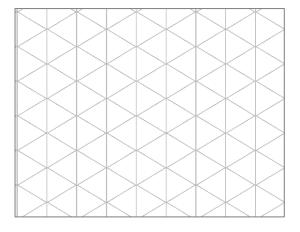


Lesson 17: Date: Draw parallelograms to clarify their attributes, and define parallelograms based on those attributes. 10/21/14



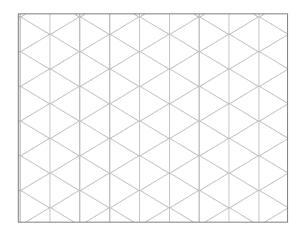
Date _____

- 1. Use the grid paper to draw.
 - a. A rhombus with no right angles.

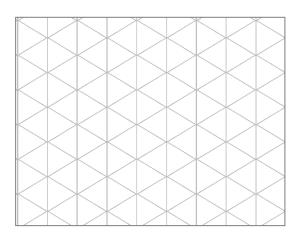


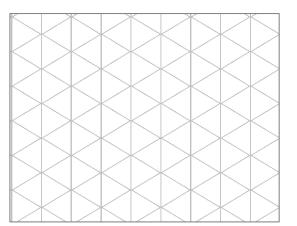
c. A rectangle with not all sides equal.

b. A rhombus with 4 right angles.



d. A rectangle with all sides equal.







Lesson 18: Date: Draw rectangles and rhombuses to clarify their attributes, and define rectangles and rhombuses based on those attributes. 10/21/14



2. A rhombus has a perimeter of 217 cm. What is the length of each side of the rhombus?

3. List the properties that all rhombuses share.

4. List the properties that all rectangles share.



Lesson 18: Date: Draw rectangles and rhombuses to clarify their attributes, and define rectangles and rhombuses based on those attributes. 10/21/14



Name	Date	

1.

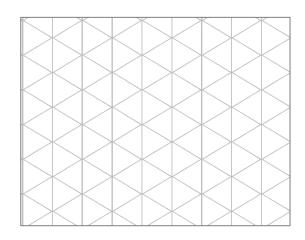
- a. Draw a kite that is not a parallelogram on the grid paper.
- b. List all the properties of a kite.



c. When can a parallelogram also be a kite?

2. If rectangles must have right angles, explain how a rhombus could also be called a rectangle.

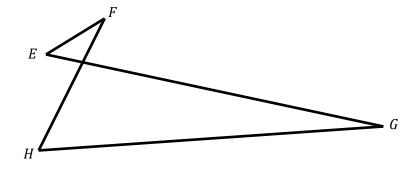
3. Draw a rhombus that is also a rectangle on the grid paper.



COMMON CORE Lesson 19: Date: Draw kites and squares to clarify their attributes, and define kites and squares based on those attributes. 10/21/14



4. Kirkland says that figure *EFGH* below is a quadrilateral because it has four points in the same plane and four segments with no three endpoints collinear. Explain his error.



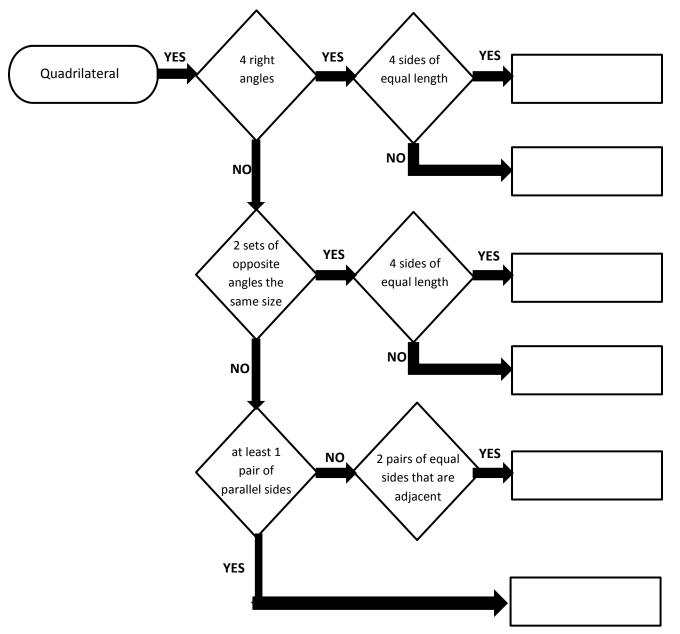


Lesson 19: Date: Draw kites and squares to clarify their attributes, and define kites and squares based on those attributes. 10/21/14



Name _____ Date _____

1. Follow the flow chart, and put the name of the figure in the boxes.



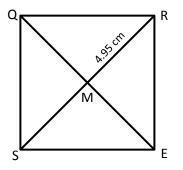
COMMON CORE

Lesson 20: Date:

Classify two-dimensional figures in a hierarchy based on properties. 10/21/14



2. *SQRE* is a square with an area of 49 cm², and RM = 4.95 cm. Find the measurements using what you know about the properties of squares.



- a. *RS* = _____ cm
- b. *QE* = _____ cm
- c. Perimeter = _____ cm
- d. $m \angle QRE = ___°$
- e. *m∠RMQ* = _____°



Lesson 20: Date: Classify two-dimensional figures in a hierarchy based on properties. 10/21/14



Name	Date
Nume	Dutt

- 1. Answer the questions by checking the box.
 - a. Is a square a rectangle?
 - b. Is a rectangle a kite?
 - c. Is a rectangle a parallelogram?
 - d. Is a square a trapezoid?
 - e. Is a parallelogram a trapezoid?
 - f. Is a trapezoid a parallelogram?
 - g. Is a kite a parallelogram?

Sometimes	Always

h. For each statement that you answered with *sometimes*, draw and label an example that justifies your answer.

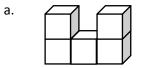
- 2. Use what you know about quadrilaterals to answer each question below.
 - a. Explain when a trapezoid is not a parallelogram. Sketch an example.
 - b. Explain when a kite is not a parallelogram. Sketch an example.

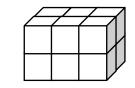




Date _____

1. What is the volume of the figures pictured below?





b.

2. Draw a picture of a figure with a volume of 3 cubic units on the dot paper.

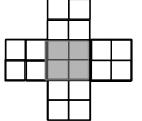
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Explore volume by building with and counting unit cubes. 10/21/14

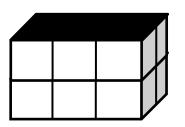


Na	me Date
1.	If this net were to be folded into a box, how many cubes would fill it?



Number of cubes: _____

2. Predict how many centimeter cubes will fit in the box, and briefly explain your prediction. Use cubes to find the actual volume. (The figure is not drawn to scale.)



Prediction: _____

Actual: _____



Lesson 2: Date: Find the volume of a right rectangular prism by packing with cubic units and counting. 10/21/14



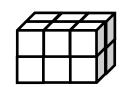
Name	Date	

1. Use unit cubes to build the figure to the right and fill in the missing information.

Number of layers: _____

Number of cubes in each layer: _____

Volume: _____ cubic centimeters

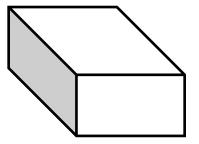


2. This prism measures 3 units by 4 units by 2 units. Draw the layers as indicated.

Number of layers: 4

Number of cubic units in each layer: 6

Volume: _____ cubic centimeters





Compose and decompose right rectangular prisms using layers. 10/21/14



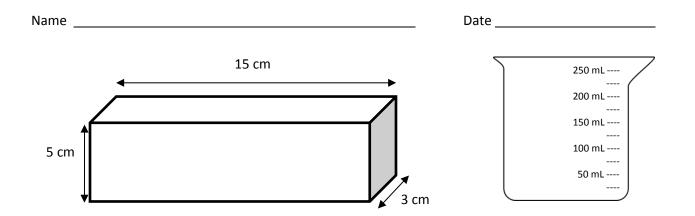
Name		Date	
Calculate the	volume of each prism.		
a.		Length: mm	
		Width: mm	
		Height: mm	
		Volume: mm ³	

Write the multiplication sentence that shows how you calculated the volume. Be sure to include the units.

b. A rectangular prism has a top face with an area of 20 ft² and a height of 5 ft. What is the volume of this rectangular prism?







- a. Find the volume of the prism.
- b. Shade the beaker to show how much liquid would fill the box.



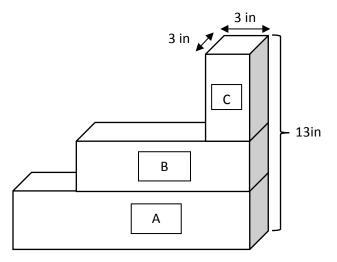
Use multiplication to connect volume as *packing* with volume as *filling*. 10/21/14



5.B.26

Date _____

Find the total volume of soil in the three planters. Planter A is 14 inches by 3 inches by 4 inches. Planter B is 9 inches by 3 inches by 3 inches.





Lesson 6: Date: Find the total volume of solid figures composed of two non-overlapping rectangular prisms. 10/21/14



Name

Date _____

A storage shed is a rectangular prism and has dimensions of 6 meters by 5 meters by 12 meters. If Jean were to double these dimensions, she believes she would only double the volume. Is she correct? Explain why or why not. Include a drawing in your explanation.



Lesson 7: Date: Solve word problems involving the volume of rectangular prisms with whole number edge lengths. 10/21/14



Name _____ Date _____

Sketch a rectangular prism that has a volume of 36 cubic cm. Label the dimensions of each side on the prism. Fill in the blanks that follow.

Height: _____ cm

Length: _____ cm

Width: _____ cm

Volume: _____ cubic cm

Apply concepts and formulas of volume to design a sculpture using rectangular prisms within given parameters. 10/21/14



5.B.61

18 in

Name _____

Date _____

A student designed this sculpture. Using the dimensions on the sculpture, find the dimensions of each rectangular prism. Then, calculate the volume of each prism.

a. Rectangular Prism Y
Height: ______ inches
Length: ______ inches
Width: ______ inches
Volume: ______ cubic inches

b. Rectangular Prism Z

Height: _____ inches

Length: _____ inches

Width: _____ inches

Volume: ______ cubic inches

c. Find the total volume of the sculpture. Label the answer.



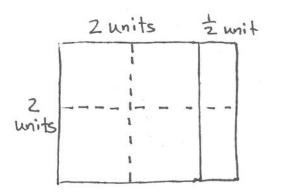
Lesson 9: Date: Apply concepts and formulas of volume to design a sculpture using rectangular prisms within given parameters. 10/21/14



5.B.76

Date _____

Emma tiled a rectangle and then sketched her work. Fill in the missing information, and multiply to find the area.



Emma's Rectangle:

_____ units long _____ units wide

Area = _____ units²



Lesson 10:

Date:

Find the area of rectangles with whole-by-mixed and whole-by-fractional number side lengths by tiling, record by drawing, and relate to fraction multiplication. 10/21/14

engage^{ny} 5.C.12

Date _____

To find the area, Andrea tiled a rectangle and sketched her answer. Sketch Andrea's rectangle, and find the area. Show your multiplication work.

Rectangle is

$$2\frac{1}{2}$$
 units $\times 2\frac{1}{2}$ units

Area = _____



Lesson 11:

Date:

Find the area of rectangles with mixed-by-mixed and fraction-byfraction side lengths by tiling, record by drawing, and relate to fraction multiplication. 10/21/14



5.C.25

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Date _____

Measure the rectangle with your inch ruler, and label the dimensions. Find the area.





Measure to find the area of rectangles with fractional side lengths. 10/21/14



Date _____

Find the area of the following rectangles. Draw an area model if it helps you.

1.
$$\frac{7}{2}$$
 mm $\times \frac{14}{5}$ mm

2. $5\frac{7}{8}$ km $\times \frac{18}{4}$ km



Lesson 13: Date: Multiply mixed number factors, and relate to the distributive property and the area model. 10/21/14



Name _____ Date _____

Mr. Klimek made his wife a rectangular vegetable garden.	The width is $5\frac{3}{4}$ ft	;, and the length is $9\frac{4}{5}$ ft	. What is
the area of the garden?			



Lesson 14: Date: Solve real world problems involving area of figures with fractional side lengths using visual models and/or equations. 10/21/14



Name _____ Date _____

Wheat grass is grown in planters that are $3\frac{1}{2}$ inch by $1\frac{3}{4}$ inch. If there is a 6 × 6 array of these planters with no space between them, what is the area covered by the planters?



Lesson 15: Date: Solve real world problems involving area of figures with fractional side lengths using visual models and/or equations. 10/21/14



Date _____

1. a. Use a ruler and a set square to draw a trapezoid.

b. What attribute must be present for a quadrilateral to also be a trapezoid?



Lesson 16: Date: Draw trapezoids to clarify their attributes, and define trapezoids based on those attributes. 10/21/14



Lesson 17 Exit Ticket 5•5

Name _____

Date _____

1. Draw a parallelogram.

2. When is a trapezoid also called a parallelogram?



Lesson 17: Date: Draw parallelograms to clarify their attributes, and define parallelograms based on those attributes. 10/21/14



Lesson 18 Exit Ticket 5•5

Name _____

Date _____

1. Draw a rhombus.

2. Draw a rectangle.



Lesson 18: Date: Draw rectangles and rhombuses to clarify their attributes, and define rectangles and rhombuses based on those attributes. 10/21/14



Date _____

1. List the property that must be present to call a rectangle a square.

2. Excluding rhombuses and squares, explain the difference between parallelograms and kites.



Lesson 19: Date: Draw kites and squares to clarify their attributes, and define kites and squares based on those attributes. 10/21/14



Date _____

Use your tools to draw a square in the space below. Then, fill in the blanks with an attribute. There is more than one answer to some of these.

a.	Because a square is a kite, it must have	
b.	Because a square is a rhombus, it must have	•
c.	Because a square is a rectangle, it must have	·
d.	Because a square is a parallelogram, it must have	•
e.	Because a square is a trapezoid, it must have	_·
f.	Because a square is a quadrilateral, it must have	



Classify two-dimensional figures in a hierarchy based on properties. 10/21/14



1. Use the word bank to fill in the blanks. trapezoids parallelograms All are, but not all are 2. Use the word bank to fill in the blanks. kites rhombuses	Na	me		Date		
2. Use the word bank to fill in the blanks. kites rhombuses	1.	Use the word ba	ank to fill in the blanks.	trapezoids parallelo	grams	
		All	are	, but not all	are	·
All are, but not all are	2.				272	



Draw and identify varied two-dimensional figures from given attributes. 10/21/14



Α

Correct _____

Α	G 1			# Correct
1	Solve. $\frac{1}{5} \ge 2 =$	23	$\frac{5}{6} \ge 12 =$	
2	$\frac{5}{\frac{1}{5} \times 3} =$	24	$\frac{6}{\frac{1}{3} \times 15} =$	
3	$\frac{5}{\frac{1}{5} \times 4} =$	25	$\frac{3}{\frac{2}{3} \times 15} =$	
4	$\frac{5}{4 \ge \frac{1}{5}} =$	26	$\frac{3}{15 \text{ x} \frac{2}{3}} =$	
5	$\frac{5}{\frac{1}{8} \times 3} =$	27	$\frac{3}{\frac{1}{5} \times 15} =$	
6	$\frac{8}{18} \times 5 =$	28	$\frac{5}{5} \times 15 =$	
7	$\frac{8}{1} \times 7 =$	29	$\frac{5}{5} \times 15 =$	
8	$\frac{8}{7 \text{ x} \frac{1}{8}} =$	30	$\frac{5}{3} \times 15 =$	
	$\frac{7 \times \frac{1}{8}}{3 \times 1}$		$\frac{15}{5} \times \frac{3}{5} =$	
9	$3 \times \frac{1}{10} =$	31	$\frac{13 \times \frac{1}{5}}{5}$	
10	$7 \ge \frac{1}{10} =$	32	$\frac{18 \text{ x} \frac{1}{6}}{10} =$	
11	$\frac{1}{10} \times 7 =$	33	$\frac{18 \times \frac{5}{6}}{5} = \frac{5}{10}$	
12	$4 \div 2 =$	34	$\frac{5}{6} \times 18 =$	
13	$4 \ge \frac{1}{2} =$	35	$24 \ge \frac{1}{4} =$	
14	$6 \div 3 =$	36	$\frac{3}{4} \times 24 =$	
15	$\frac{1}{3} \ge 6 =$	37	$\frac{4}{32 \times \frac{1}{8}} =$	
16	$10 \div 5 =$	38	$32 \ge \frac{3}{8} =$	
17	$10 \ge \frac{1}{5} =$	39	$\frac{5}{8} \ge 32 =$	
18	$\frac{1}{3} \ge 9 =$	40	$32 \ge \frac{7}{8} =$	
19	$\frac{2}{3} \times 9 =$	41	$\frac{5}{9} \ge 54 =$	
20	$\frac{1}{4} \ge 8 =$	42	$63 \ge \frac{7}{9} =$	
21	$\frac{3}{4} \ge 8 =$	43	$56 \ge \frac{3}{7} =$	
22	$\frac{1}{6} \ge 12 =$	44	$\frac{6}{7} \ge 49 =$	



Lesson 3: Date: Compose and decompose right rectangular prisms using layers. 10/21/14



5.A.34

В	Solve.	Improvement		# Correct
1	$\frac{1}{7} \ge 2 =$	23	$\frac{3}{4} \ge 8 =$	
2	$\frac{1}{7} \ge 3 =$	24	$\frac{1}{5} \ge 15 =$	
3	$\frac{1}{7} \ge 4 =$	25	$\frac{2}{5} \times 15 =$	
4	$4 \ge \frac{1}{7} =$	26	$\frac{4}{5} \ge 15 =$	
5	$\frac{1}{10} \ge 3 =$	27	$\frac{3}{5} \ge 15 =$	
6	$\frac{1}{10} \times 7 =$	28	$15 \ge \frac{3}{5} =$	
7	$\frac{1}{10} \ge 9 =$	29	$\frac{1}{3} \ge 15 =$	
8	$9 \ge \frac{1}{10} =$	30	$\frac{2}{3} \times 15 =$	
9	$3 \times \frac{1}{8} =$	31	$\frac{3}{15 \text{ x} \frac{2}{3}} =$	
10	$5 \times \frac{1}{8} =$	32	$24 \ge \frac{1}{6} =$ $24 \ge \frac{5}{6} =$	
11	$\frac{1}{8} \ge 5 =$	33	$24 \ge \frac{5}{6} =$	
12	10 ÷ 5 =	34	$\frac{5}{6} \ge 24 =$	
13	$10 \ge \frac{1}{5} =$	35	$20 \ge \frac{1}{4} =$	
14	9 ÷ 3 =	36	$\frac{3}{4} \ge 20 =$	
15	$\frac{1}{3} \ge 9 =$	37	$24 \ge \frac{1}{8} =$	
16	10 ÷ 2 =	38	$24 \ge \frac{3}{8} =$	
17	$10 \ge \frac{1}{2}$	39	$\frac{5}{8} \ge 24 =$	
18	$\frac{1}{3} \times 6 =$	40	$24 \ge \frac{7}{8} =$	
19	$\frac{2}{3} \ge 6 =$	41	$\frac{5}{9} \ge 63 =$	
20	$\frac{1}{6} \ge 12 =$	42	$54 \ge \frac{7}{9} =$ $49 \ge \frac{3}{7} =$	
21	$\frac{5}{6} \times 12 =$	43	$49 \ge \frac{3}{7} =$	
22	$\frac{1}{4} \ge 8 =$	44	$\frac{6}{7} \ge 56 =$	



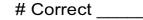
Lesson 3: Date: Compose and decompose right rectangular prisms using layers. 10/21/14



5.A.35

A			# 0	Jorrect
	Multiply, but don't simplify.			
1	$\frac{1}{2} \times \frac{1}{2} =$	23	$\frac{2}{5} \ge \frac{5}{3} =$	
2	$\frac{1}{2} \times \frac{1}{3} =$	24	$\frac{2}{5} \times \frac{5}{3} =$ $\frac{3}{5} \times \frac{5}{2} =$	
3	$\frac{1}{2} \times \frac{1}{4} =$	25	$\frac{1}{3} \times \frac{1}{3} =$	
4	$\frac{1}{2} \times \frac{1}{7} =$	26	$\frac{1}{3} \times \frac{2}{3} =$	
5	$\frac{1}{7} \times \frac{1}{2} =$	27	$\frac{1}{3} \times \frac{1}{3} =$ $\frac{1}{3} \times \frac{2}{3} =$ $\frac{2}{3} \times \frac{2}{3} =$	
6	$\frac{1}{3} \times \frac{1}{2} =$	28	$\frac{2}{3} \times \frac{3}{2} =$	
7	$\frac{1}{3} \times \frac{1}{3} =$	29	$\frac{2}{3} \times \frac{4}{3} =$	
8	$\frac{1}{3} \ge \frac{1}{6} =$	30	$\frac{3}{3} \frac{3}{2} = \frac{2}{3} \times \frac{3}{2} = \frac{2}{3} \times \frac{4}{3} = \frac{2}{3} \times \frac{4}{3} = \frac{2}{3} \times \frac{5}{3} = \frac{3}{2} \times \frac{3}{5} = \frac{3}{2} \times \frac{3}{5} = \frac{2}{3} \times \frac{3}{5} \times \frac{3}{5} = \frac{2}{3} \times \frac{3}{5} \times \frac{3}{5} = \frac{2}{3} \times \frac{3}{5} \times \frac{3}{5$	
9	$\frac{1}{3} \times \frac{1}{5} =$	31	$\frac{3}{2} \ge \frac{3}{5} =$	
10	$\frac{1}{5} \times \frac{1}{3} =$	32	$\frac{3}{4} \times \frac{1}{5} =$	
11	$\frac{1}{5} \times \frac{2}{3} =$	33	$\frac{3}{4} \times \frac{4}{5} =$	
12	$\frac{2}{5} \times \frac{2}{3} =$	34	$\frac{3}{4} \times \frac{5}{5} =$	
13	$\frac{1}{4} \times \frac{1}{3} =$	35	$\frac{3}{4} \ge \frac{6}{5} =$	
14	$\frac{1}{4} \times \frac{2}{3} =$	36	$\frac{1}{4} \ge \frac{6}{5} =$	
15	$\frac{1}{4} \times \frac{2}{3} =$ $\frac{3}{4} \times \frac{2}{3} =$	37	$\frac{1}{7} \ge \frac{1}{7} =$	
16	$\frac{1}{6} \times \frac{1}{2} =$	38	$\frac{1}{8} \ge \frac{3}{5} =$	
17	$\frac{5}{6} \times \frac{1}{3} =$	39	$\frac{5}{6} \times \frac{1}{4} =$ $\frac{3}{4} \times \frac{3}{4} =$	
18	$\frac{5}{6} \times \frac{2}{3} =$	40	$\frac{3}{4} \times \frac{3}{4} =$	
19	$\frac{5}{4} \times \frac{2}{3} =$	41	$\frac{2}{3} \ge \frac{6}{6} =$	
20	$\frac{1}{5} \times \frac{1}{5} =$	42	$\frac{3}{4} \ge \frac{6}{2} =$	
21	$\frac{5}{6} \times \frac{1}{3} =$ $\frac{5}{6} \times \frac{2}{3} =$ $\frac{5}{4} \times \frac{2}{3} =$ $\frac{1}{5} \times \frac{1}{5} =$ $\frac{2}{5} \times \frac{2}{5} =$	43	$\frac{-4}{4} \times \frac{-4}{4} =$ $\frac{2}{3} \times \frac{6}{6} =$ $\frac{3}{4} \times \frac{6}{2} =$ $\frac{7}{8} \times \frac{7}{9} =$	
22	$\frac{2}{5} \times \frac{3}{5} =$	44	$\frac{7}{12} \ge \frac{9}{8} =$	

Α





Lesson 7: Date:

Solve word problems involving the volume of rectangular prisms with whole number edge lengths. 10/21/14

engage^{ny}

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5.B.48

в	Multiply, but don't simplify.	Improvement	
1	$\frac{1}{2} \times \frac{1}{3} =$	23	$\frac{\frac{3}{5} \times \frac{5}{4}}{\frac{4}{5} \times \frac{5}{3}} =$
2	$\frac{1}{2} \times \frac{1}{4} =$	24	$\frac{4}{5} \times \frac{5}{3} =$
3	$\frac{1}{2} \times \frac{1}{5} =$	25	$\frac{1}{4} \times \frac{1}{4} =$ $\frac{1}{4} \times \frac{3}{4} =$ $\frac{3}{4} \times \frac{3}{4} =$
4	$\frac{1}{2} \times \frac{1}{9} =$	26	$\frac{1}{4} \times \frac{3}{4} =$
5	$\frac{1}{9} \times \frac{1}{2} =$	27	$\frac{3}{4} \times \frac{3}{4} =$
6	$\frac{1}{5} \times \frac{1}{2} =$	28	$\frac{3}{4} \times \frac{4}{3} =$
7	$\frac{1}{5} \times \frac{1}{3} =$	29	$\frac{3}{4} \times \frac{5}{4} =$
8	$\frac{1}{2} \times \frac{1}{2} =$	30	$\frac{3}{4} \times \frac{6}{4} =$
9	$\frac{5}{5} \times \frac{7}{3} =$	31	$\frac{4}{3} \times \frac{4}{6} =$
10	$\frac{1}{3} \times \frac{1}{5} =$	32	$\frac{2}{3} \times \frac{1}{5} =$
11	$\frac{1}{3} \times \frac{2}{5} =$	33	$\frac{2}{3} \times \frac{4}{5} =$
12	$\frac{1}{3} \times \frac{2}{5} =$ $\frac{2}{3} \times \frac{2}{5} =$	34	$\frac{2}{3} \times \frac{4}{5} = \frac{2}{3} \times \frac{5}{5} \times \frac{5}{5} = \frac{2}{3} \times \frac{5}{5} \times \frac{5}{5} = \frac{2}{3} \times \frac{5}{5} \times \frac{5}$
13	$\frac{1}{3} \times \frac{1}{4} =$ $\frac{1}{3} \times \frac{3}{4} =$	35	$\frac{2}{3} \times \frac{6}{5} =$
14	$\frac{1}{3} \times \frac{3}{4} =$	36	$\frac{1}{3} \times \frac{6}{5} =$
15	$\frac{2}{3} \times \frac{3}{4} =$	37	$\frac{1}{9} \times \frac{1}{9} =$
16	$\frac{1}{3} \times \frac{1}{6} =$	38	$\frac{1}{5} \times \frac{3}{8} =$
17	$\frac{2}{3} \times \frac{1}{6} =$	39	$\frac{3}{4} \times \frac{1}{6} =$
18	$\frac{2}{3} \times \frac{5}{6} =$	40	$\frac{2}{3} \times \frac{2}{3} =$
19	$\frac{2}{3} \times \frac{5}{6} =$ $\frac{3}{2} \times \frac{3}{4} =$	41	$\frac{3}{4} \times \frac{8}{8} =$
20	$\frac{1}{5} \times \frac{1}{5} =$	42	$\frac{2}{3} \times \frac{6}{3} =$
21	$\frac{3}{5} \times \frac{3}{5} =$	43	$\frac{6}{7} \times \frac{8}{9} =$
22	$\frac{\frac{1}{5} \times \frac{1}{5}}{\frac{3}{5} \times \frac{3}{5}} =$ $\frac{\frac{3}{5} \times \frac{3}{5}}{\frac{3}{5} \times \frac{4}{5}} =$	44	$ \frac{4}{2} \cdot 6 = \frac{2}{3} \cdot \frac{2}{3} = \frac{2}{3} \cdot \frac{2}{3} = \frac{2}{3} \cdot \frac{8}{3} = \frac{2}{3} \cdot \frac{6}{3} = \frac{2}{3} \cdot \frac{6}{3} = \frac{2}{7} \cdot \frac{8}{9} = \frac{2}{7} \cdot \frac{8}{7} \cdot \frac{8}{7} \cdot \frac{8}{7} = \frac{2}{7} \cdot \frac{8}{7} \cdot$



Lesson 7: Date: Solve word problems involving the volume of rectangular prisms with whole number edge lengths. 10/21/14



5.B.49

Α

A	Multiply.		π	
1	3 x 2 =	23	0.6 x 2 =	
2	3 x 0.2 =	24	0.6 x 0.2 =	
3	3 x 0.02 =	25	0.6 x 0.02 =	
4	3 x 3 =	26	0.2 x 0.06 =	
5	3 x 0.3 =	27	5 x 7 =	
6	3 x 0.03 =	28	0.5 x 7 =	
7	2 x 4 =	29	0.5 x 0.7 =	
8	2 x 0.4 =	30	0.5 x 0.07 =	
9	2 x 0.04 =	31	0.7 x 0.05 =	
10	5 x 3 =	32	2 x 8 =	
11	5 x 0.3 =	33	9 x 0.2 =	
12	5 x 0.03 =	34	3 x 7 =	
13	7 x 2 =	35	8 x 0.03 =	
14	7 x 0.2 =	36	4 x 6 =	
15	7 x 0.02 =	37	0.6 x 7 =	
16	4 x 3 =	38	0.7 x 0.7 =	
17	4 x 0.3 =	39	0.8 x 0.06 =	
18	0.4 x 3 =	40	0.09 x 0.6 =	
19	0.4 x 0.3 =	41	6 x 0.8 =	
20	0.4 x 0.03 =	42	0.7 x 0.9 =	
21	0.3 x 0.04 =	43	0.08 x 0.8 =	
22	6 x 2 =	44	0.9 x 0.08 =	

Correct



Lesson 11:

Date:

Find the area of rectangles with mixed-by-mixed and fraction-byfraction side lengths by tiling, record by drawing, and relate to fraction multiplication. 10/21/14



5.C.21

В	Multiply.	Improvemer	nt # Correct
1	4 x 2 =	23	0.8 x 2 =
2	4 x 0.2 =	24	0.8 x 0.2 =
3	4 x 0.02 =	25	0.8 x 0.02 =
4	2 x 3 =	26	0.2 x 0.08 =
5	2 x 0.3 =	27	5 x 9 =
6	2 x 0.03 =	28	0.5 x 9 =
7	3 x 3 =	29	0.5 x 0.9 =
8	3 x 0.3 =	30	0.5 x 0.09 =
9	3 x 0.03 =	31	0.9 x 0.05 =
10	4 x 3 =	32	2 x 6 =
11	4 x 0.3 =	33	7 x 0.2 =
12	4 x 0.03 =	34	3 x 8 =
13	9 x 2 =	35	9 x 0.03 =
14	9 x 0.2 =	36	4 x 8 =
15	9 x 0.02 =	37	0.7 x 6 =
16	5 x 3 =	38	0.6 x 0.6 =
17	5 x 0.3 =	39	0.6 x 0.08 =
18	0.5 x 3 =	40	0.06 x 0.9 =
19	0.5 x 0.3 =	41	8 x 0.6 =
20	0.5 x 0.03 =	42	0.9 x 0.7 =
21	0.3 x 0.05 =	43	0.07 x 0.7 =
22	8 x 2 =	44	0.8 x 0.09 =

COMMON CORE

Lesson 11:

Date:

Find the area of rectangles with mixed-by-mixed and fraction-byfraction side lengths by tiling, record by drawing, and relate to fraction multiplication. 10/21/14



5.C.22

Α	Divide.		# Correct
1	$\frac{1}{2} \div 2 =$	23	$4 \div \frac{1}{4} =$
2	$\frac{1}{2} \div 3 =$	24	$\frac{1}{3} \div 3 =$
3	$\frac{1}{2} \div 4 =$	25	$\frac{2}{3} \div 3 =$
4	$\frac{1}{2} \div 7 =$	26	$\frac{1}{4} \div 2 =$
5	$7 \div \frac{1}{2} =$	27	$\frac{3}{4} \div 2 =$
6	$6 \div \frac{1}{2} =$	28	$\frac{1}{5} \div 2 =$
7	$5 \div \frac{1}{2} =$	29	$\frac{3}{5} \div 2 =$
8	$3 \div \frac{1}{2} =$	30	$\frac{1}{6} \div 2 =$
9	$2 \div \frac{1}{5} =$	31	$\frac{5}{6} \div 2 =$
10	$3 \div \frac{1}{5} =$	32	$\frac{5}{6} \div 3 =$
11	$4 \div \frac{1}{5} =$	33	$\frac{1}{6} \div 3 =$
12	$7 \div \frac{1}{5} =$	34	$3 \div \frac{1}{6} =$
13	$\frac{1}{5} \div 7 =$	35	$6 \div \frac{1}{6} =$
14	$\frac{1}{3} \div 2 =$	36	$7 \div \frac{1}{7} =$
15	$2 \div \frac{1}{3} =$	37	$8 \div \frac{1}{9} =$
16	$\frac{1}{4} \div 2 =$	38	$9 \div \frac{1}{9} =$
17	$\frac{4}{2 \div \frac{1}{4}} =$	39	$\frac{1}{2} \div 7 =$
18	$\frac{1}{5} \div 2 =$	40	$9 \div \frac{1}{8} =$
19	$2 \div \frac{1}{\pi} =$	41	$\frac{1}{2} \div 7 =$
20	$3 \div \frac{1}{4} =$	42	$7 \div \frac{1}{6} =$
21	$\frac{1}{4} \div 3 =$	43	$9 \div \frac{1}{7} =$
22	$\frac{1}{4} \div 4 =$	44	$\frac{1}{8} \div 9 =$



Lesson 18: Date:

Draw rectangles and rhombuses to clarify their attributes, and define rectangles and rhombuses based on those attributes. 10/21/14



в	Divide.	Improvement	
1	$\frac{1}{2} \div 2 =$	23	$3 \div \frac{1}{3} =$
2	$\frac{1}{5} \div 3 =$	24	$\frac{1}{4} \div 4 =$
3	$\frac{1}{5} \div 4 =$	25	$\frac{3}{4} \div 4 =$
4	$\frac{1}{5} \div 7 =$	26	$\frac{1}{3} \div 3 =$
5	$7 \div \frac{1}{5} =$	27	$\frac{2}{3} \div 3 =$
6	$6 \div \frac{1}{5} =$	28	$\frac{1}{6} \div 2 =$
7	$5 \div \frac{1}{5} =$	29	$\frac{5}{6} \div 2 =$
8	$3 \div \frac{1}{5} =$	30	$\frac{1}{5} \div 5 =$
9	$2 \div \frac{1}{2} =$	31	$\frac{3}{5} \div 5 =$
10	$3 \div \frac{1}{2} =$	32	$\frac{3}{5} \div 4 =$
11	$4 \div \frac{1}{2} =$	33	$\frac{1}{5} \div 6 =$
12	$\frac{2}{7 \div \frac{1}{2}} =$	34	$6 \div \frac{1}{5} =$
13	$\frac{1}{2} \div 7 =$	35	$6 \div \frac{1}{4} =$
14	$\frac{1}{4} \div 2 =$	36	$7 \div \frac{1}{6} =$
15	$2 \div \frac{1}{4} =$	37	$8 \div \frac{1}{7} =$
16	$\frac{1}{3} \div 2 =$	38	$9 \div \frac{1}{8} =$
17	$2 \div \frac{1}{3} =$	39	$\frac{1}{2} \div 8 =$
18	$\frac{1}{2} \div 2 =$	40	$\frac{8}{9 \div \frac{1}{9}} =$
19	$2 \div \frac{1}{2} =$	41	$\frac{1}{2} \div 8 =$
20	$\frac{2}{4 \div \frac{1}{3}} =$	42	$7 \div \frac{1}{7} =$
21	$\frac{1}{3} \div 4 =$	43	$9 \div \frac{1}{6} =$
22	$\frac{1}{3} \div 3 =$	44	$\frac{1}{8} \div 6 =$



Lesson 18: Date: Draw rectangles and rhombuses to clarify their attributes, and define rectangles and rhombuses based on those attributes. 10/21/14



Α	Multiply.		# (Correct
1	2 x 10 =	23	33 x 20 =	
2	12 x 10 =	24	33 x 200 =	
3	12 x 100 =	25	24 x 10 =	
4	4 x 10 =	26	24 x 20 =	
5	34 x 10 =	27	24 x 100 =	
6	34 x 100 =	28	24 x 200 =	
7	7 x 10 =	29	23 x 30 =	
8	27 x 10 =	30	23 x 300 =	
9	27 x 100 =	31	71 x 2 =	
10	3 x 10 =	32	71 x 20 =	
11	3 x 2 =	33	14 x 2 =	
12	3 x 20 =	34	14 x 3 =	
13	13 x 10 =	35	14 x 30 =	
14	13 x 2 =	36	14 x 300 =	
15	13 x 20 =	37	82 x 20 =	
16	13 x 100 =	38	15 x 300 =	
17	13 x 200 =	39	71 x 600 =	
18	2 x 4 =	40	18 x 40 =	
19	22 x 4 =	41	75 x 30 =	
20	22 x 40 =	42	84 x 300 =	
21	22 x 400 =	43	87 x 60 =	
22	33 x 2 =	44	79 x 800 =	

Correct



Lesson 19: Date:

Draw kites and squares to clarify their attributes, and define kites and squares based on those attributes. 10/21/14



В	Multiply.	Improvement _	# Correct
1	3 x 10 =	23	44 x 20 =
2	13 x 10 =	24	44 x 200 =
3	13 x 100 =	25	42 x 10 =
4	5 x 10 =	26	42 x 20 =
5	35 x 10 =	27	42 x 100 =
6	35 x 100 =	28	42 x 200 =
7	8 x 10 =	29	32 x 30 =
8	28 x 10 =	30	32 x 300 =
9	28 x 100 =	31	81 x 2 =
10	4 x 10 =	32	81 x 20 =
11	4 x 2 =	33	13 x 3 =
12	4 x 20 =	34	13 x 4 =
13	14 x 10 =	35	13 x 40 =
14	14 x 2 =	36	13 x 400 =
15	14 x 20 =	37	72 x 30 =
16	14 x 100 =	38	15 x 300 =
17	14 x 200 =	39	81 x 600 =
18	2 x 3 =	40	16 x 40 =
19	22 x 3 =	41	65 x 30 =
20	22 x 30 =	42	48 x 300 =
21	22 x 300 =	43	89 x 60 =
22	44 x 2 =	44	76 x 800 =



COMMON CORE

Lesson 19: Date:

Draw kites and squares to clarify their attributes, and define kites and squares based on those attributes. 10/21/14



Α	Divide.		# Correct
1	30 ÷ 10 =	23	480 ÷ 4 =
2	430 ÷ 10 =	24	480 ÷ 40 =
3	4,300 ÷ 10 =	25	6,300 ÷ 3 =
4	4,300 ÷ 100 =	26	6,300 ÷ 30 =
5	43,000 ÷ 100 =	27	6,300 ÷ 300 =
6	50 ÷ 10 =	28	8,400 ÷ 2 =
7	850 ÷ 10 =	29	8,400 ÷ 20 =
8	8,500 ÷ 10 =	30	8,400 ÷ 200 =
9	8,500 ÷ 100 =	31	96,000 ÷ 3 =
10	85,000 ÷ 100 =	32	96,000 ÷ 300 =
11	600 ÷ 10 =	33	96,000 ÷ 30 =
12	60 ÷ 3 =	34	900 ÷ 30 =
13	600 ÷ 30 =	35	1,200 ÷ 30 =
14	4,000 ÷ 100 =	36	1,290 ÷ 30 =
15	40 ÷ 2 =	37	1,800 ÷ 300 =
16	4,000 ÷ 200 =	38	8,000 ÷ 200 =
17	240 ÷ 10 =	39	12,000 ÷ 200 =
18	24 ÷ 2 =	40	12,800 ÷ 200 =
19	240 ÷ 20 =	41	2,240 ÷ 70 =
20	3,600 ÷ 100 =	42	18,400 ÷ 800 =
21	36 ÷ 3 =	43	21,600 ÷ 90 =
22	3,600 ÷ 300 =	44	25,200 ÷ 600 =

COMMON CORE Lesson 21: Date:

10/21/14

Draw and identify varied two-dimensional figures from given attributes.



В	Divide.	/emer	nt # Correct
1	20 ÷ 10 =	23	840 ÷ 4 =
2	420 ÷ 10 =	24	840 ÷ 40 =
3	4,200 ÷ 10 =	25	3,600 ÷ 3 =
4	4,200 ÷ 100 =	26	3,600 ÷ 30 =
5	42,000 ÷ 100 =	27	3,600 ÷ 300 =
6	40 ÷ 10 =	28	4,800 ÷ 2 =
7	840 ÷ 10 =	29	4,800 ÷ 20 =
8	8,400 ÷ 10 =	30	4,800 ÷ 200 =
9	8,400 ÷ 100 =	31	69,000 ÷ 3 =
10	84,000 ÷ 100 =	32	69,000 ÷ 300 =
11	900 ÷ 10 =	33	69,000 ÷ 30 =
12	90 ÷ 3 =	34	800 ÷ 40 =
13	900 ÷ 30 =	35	1,200 ÷ 40 =
14	6,000 ÷ 100 =	36	1,280 ÷ 40 =
15	60 ÷ 2 =	37	1,600 ÷ 400 =
16	6,000 ÷ 200 =	38	8,000 ÷ 200 =
17	240 ÷ 10 =	39	14,000 ÷ 200 =
18	24 ÷ 2 =	40	14,600 ÷ 200 =
19	240 ÷ 20 =	41	2,560 ÷ 80 =
20	6,300 ÷ 100 =	42	16,100 ÷ 700 =
21	63 ÷ 3 =	43	14,400 ÷ 60 =
22	6,300 ÷ 300 =	44	37,800 ÷ 900 =



Lesson 21: Date: Draw and identify varied two-dimensional figures from given attributes. 10/21/14

