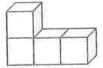
Name	Date	
name		

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.

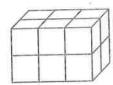
A. .

D.

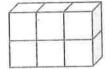
В.



Ε.



C.



F,

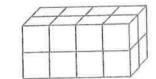
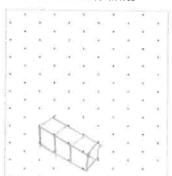


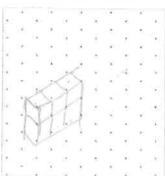
Figure	Volume	Explanation
Α	2	one layer of two
В	A	three on the bottom, one ontog
С	(D	two layers of three
D	6	four on the bottoms two on the
E	12	two layers of six
F	16	two layers of eacht

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

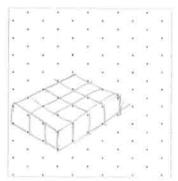
3 cubic units



b. 6 cubic units



12 cubic units

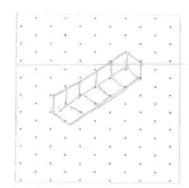


3. John built and drew a structure that has a volume of 5 cubic centimeters. His little brother tells him he made a mistake because he only drew 4 cubes. Help John explain to his brother why his drawing is accurate.

These are 5 cubes. There are four at the bottom and one on top of one at the bottom.



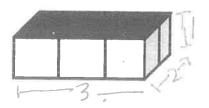
4. Draw another figure below that represents a structure with a volume of 5 cubic centimeters.



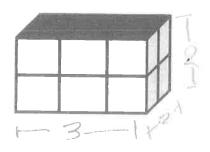
Nai	me	Date
1,	Make the fo them so the number.	llowing boxes on centimeter grid paper. Cut and fold each to make 3 open boxes, taping y hold their shapes. How many cubes would fill each box? Explain how you found the
	Humber,	Number of cubes:
	a.	Number of cubes:
		there is one layer of 4
		1-2
	b.	Number of cubes:
		Number of cubes: 12 There are two layers
		0+6
	6	Number of cubes:
	C.	
		There are two layers
		c+ 12.

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

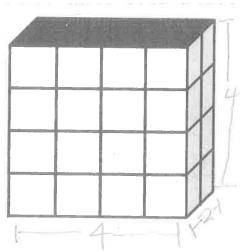
a.



b.



C.



Number of cubes:

Explanation:

3 by 2 by 1

Number of cubes:

Explanation:

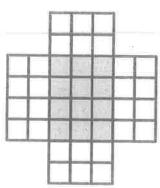
Explanation:

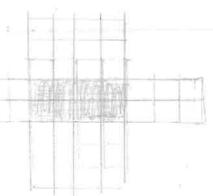
Number of cubes:

Explanation:

4 by 2 by 4

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

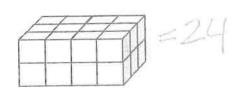


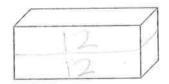


	Data
Name	Date
Vallic	7

- 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.

a.	Number of Layers	Number of Cubes in Each Layer	Volume of the Prism
	2	12	and cubic cm
	A	6	cubic cm
	3	8	cubic cm



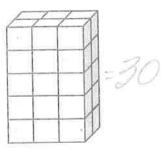


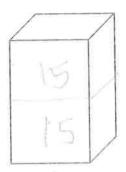


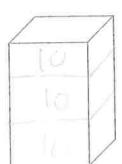


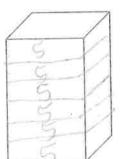
b.	N	l

Number of Layers	Number of Cubes in Each Layer	Volume of the Prism
2	15	20 cubic cm
3	10	30 cubic cm
6	5	30 cubic cm











2. 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

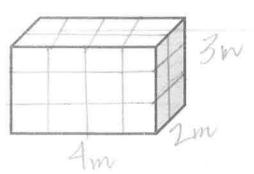
chelsed is thinking about adding 8 layers of a which is 172.

adding 4 layers of 18, which

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	481	3 4×4×3=48 1123
5	8 On	3 4x4x5=80 12
7	112	if 4x4x7 = 112 is

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 top to bottom.

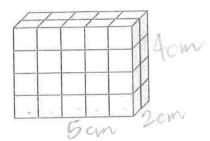
Each horizontal layer contains _____ cubic meters.

The volume of this prism is ______

Date Name ____

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

a.



Length: ___

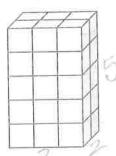
0/8/	
1	cm
-	

Width: _____cm

Height: _____cm

Volume: 40 cm³

b.

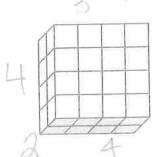


Length: ____cm
Width: ____cm

Height: ____cm

Volume: ____cm³

c.



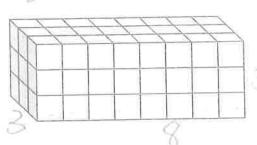
Length: ____cm

Width: ____cm

Height: _____cm

Volume: _____cm³

d.



Length: ____cm Width: ____cm Height: ____cm

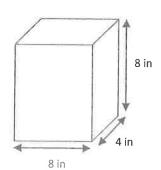
Volume: 72

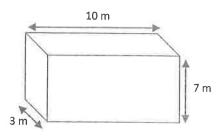
2. Write a multiplication sentence that you could use to calculate the volume for each rectangular prism in Problem 1. Include the units in your sentences.

h	Acm	XXCIN	XZ
	-20		200

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

a.







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?

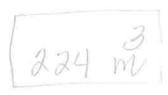


28 m x 24 m x 3

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

Height: 4 meters



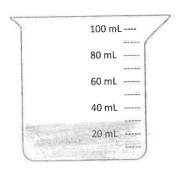


b. Face area: 169 square inches

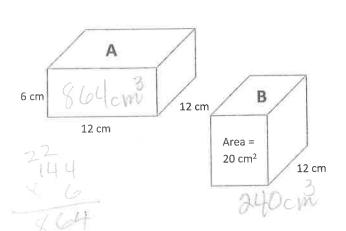
Height: 14 inches

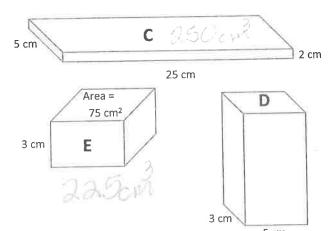
Name Date _____

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.



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.





A and C can hold 250 ml of water

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.

Cubic centimeters and milliteis are equivalent.

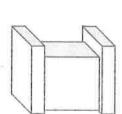




Date Name _ 1. Find the total volume of the figures, and record your solution strategy. a. 13 in 3 cm 2 cm 9 cm 21 cm Volume: Solution Strategy Solution Strategy: d. 6 mm 4 mm 11 m 5 mm 3 mm 10 m 3 mm Solution Strategy: Solution Strategy:



2. The figure 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 this figure?



3×6×14= 3×84= 25212 5 × 5 × 10= 75 × 10= 7501n

The total Volume 15 1.254 in

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

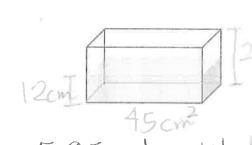


250=2=125cm

125 5 cm × 5 cm × 5 cm

The measure of one edge is 5 cm

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?



15 X 25= 3

540cm -1,125 -540

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?

518

ims B and C have equal volume. W

IALLIJE,

7518

Prism A 15 74 AB , and

222 Fl3 e

X 3 222

26

Lesson 6:

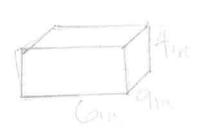
Find the total volume of solid figures composed of two non-overlapping rectangular prisms.

EUREKA MATH

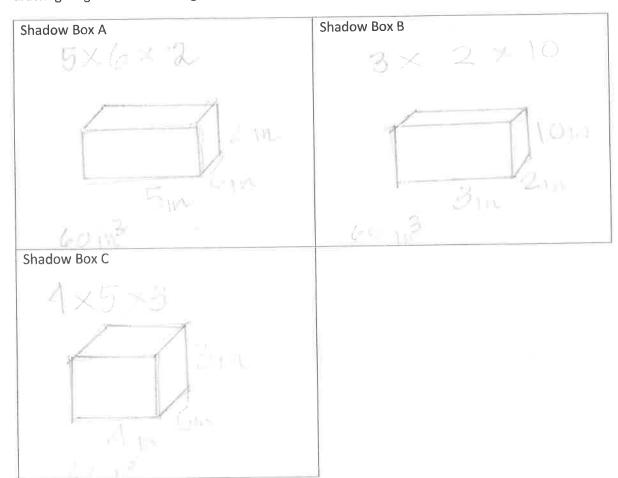
Date Name

Wren makes some rectangular display boxes.

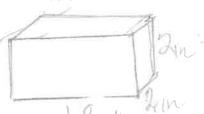
1. Wren's first display box is 6 inches long, 9 inches wide, and 4 inches high. What is the volume of the V=6 x0 x.4 = 54 x.4 = 21613 display box? Explain your work using a diagram.



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.



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 inches. Name one way she could build a supply box with a volume of 72 cubic inches.



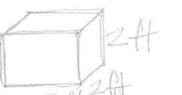
IFF can use a box tha

- 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?

X2 X 2 = 443 1×4×2=8A3 She will not achieve her goal.

b. If she wants to keep the height the same, what could the other dimensions be for a 12-cubic-foot storage box?

3×2×2



c. If she uses the dimensions in part (b), what is the area of the new storage box's floor?

X 29 = 6+

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

Herfirst box had 4-9+2 of area

ter second box had 6ft2 of area

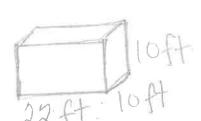
Name	Date	
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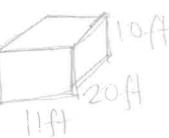
1. I have a prism with the dimensions of 6 cm by 12 cm by 15 cm. Calculate the volume of the prism, and then give the dimensions of three different prisms that each have $\frac{1}{3}$ of the volume.

	Length	Width	Height	Volume
Original Prism	6 cm	12 cm	15 cm	1,080cm
Prism 1	Dem	12cm	15cm	360 cm
Prism 2	6 cm	4cm	.15 cm	360 cm
Prism 3	6 cm	12 cm	5 cm	360 m

2	Sunni's bedroom has the dimensions of 11 ft by 10 ft by 10 ft. Her den has the same height but	t double
	the volume. Give two sets of the possible dimensions of the den and the volume of the den.	

len 1 $22 \times 10 \times 10 = 2,200 \text{ ft}^3$ len 2 $11 \times 20 \times 10 = 2,200 \text{ ft}^3$







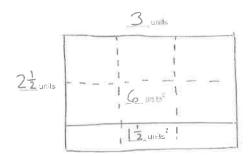
Nam	ie .		Date
1.	Fine tiss	d three rectangular prism ue box, etc.), and then m	s around your house. Describe the item you are measuring (cereal box, easure each dimension to the nearest whole inch, and calculate the volume.
	a.	Rectangular Prism A	
		Item:	12 -
		Height:	inches
		Length:	_inches
		Width:	inches
		Volume: 390	cubic inches
	b.	Rectangular Prism B	Capacakes flour box
		Item:	
		Height:	_inches $\frac{1}{2}$ $\sqrt{5}$ $\frac{1}{2}$ $\sqrt{2}$ $=$
		Length:	_inches $-7\sqrt{5+3+3+4} = 7\times 84$
		Width:	_inches $7 \times (5 + 2 + 2 + 4) = 7 \times 0.4$ _inches $56 + 56 = 56 + 16 = 72$
		Volume:	cubic inches
	C.	Rectangular Prism C	Pencils box
		item.	a - 6 4 × 1/2 =
		Height:	_inches $8 \times 9 = 100$
		Length:	_inches $8 \times (34 + 4) = 8 \times 14 - 874$
		Width:	inches
		Volume:	cubic inches



Name _____

Date

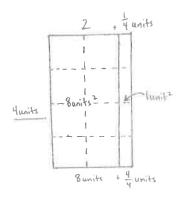
- $1_{
 m color}$ John tiled some rectangles using square units. Sketch the rectangles if necessary. Fill in the missing information, and then confirm the area by multiplying.
 - a. Rectangle A:



Rectangle A is

units long $\frac{2\frac{1}{2}}{2}$ units wide

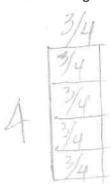
b. Rectangle B:



Rectangle B is

units long _

c. Rectangle C:



Rectangle C is

d. Rectangle D

	17		
	3		
	4		
	24		

Rectangle D is



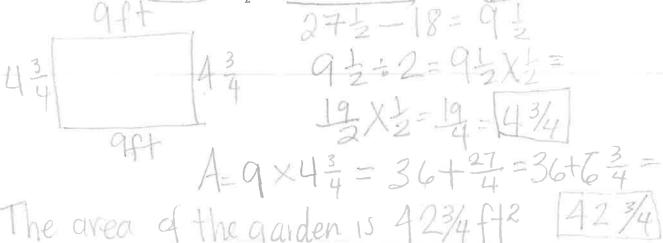
Area =
$$\frac{31}{2}$$
 units²

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 × $3\frac{1}{4}$ inches. What is the area of the whole mosaic in square inches?

$$4 \times 3/4 = 4 \times 3/4 = 13/3 \times 3/$$

The area of the whole mosaic 13 79 = in

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?



42

Lesson 10:

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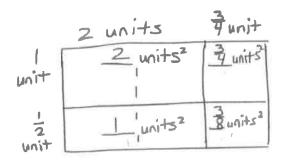
Find the area of rectangles with whole-by-mixed and whole-by-fractional number side lengths by tiling, record by drawing, and relate to fraction multiplication.

EUREKA MATH

Name	
Maille	

Date

- 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.
 - **Rectangle A:**



Rectangle A	is	1).	3
2 3/4	units long × _	12	_ units wide

Area =
$$\frac{1}{2}$$
 units²

$$2\frac{3}{4} \times 1\frac{1}{2} = 2 + \frac{3}{2} + \frac{3}{8} = 3 + \frac{3}{8} + \frac{3}{8} = 3 + \frac{3}{8} + \frac{3}{8} = 3 + \frac{$$

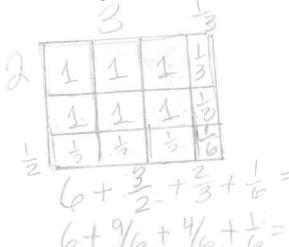
Rectangle B:

2	12
9-14	3
412	1 8

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

Area =
$$\frac{178}{2}$$
 units²
 $2\frac{1}{2} \times \frac{3}{4} = \frac{6}{4} + \frac{3}{8} = /\frac{1}{2} + \frac{3}{8} = -\frac{1}{2} + \frac{3}{8} = -\frac{1}{2} + \frac{3}{8} = -\frac{1}{8} + \frac{3}{8} =$

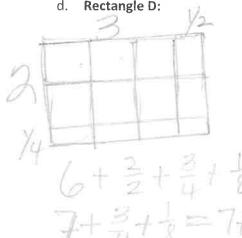
Rectangle C:



Rectangle C is

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

d. Rectangle D:



Rectangle D is

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

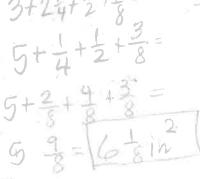
2. A square has a perimeter of 25 inches. What is the area of the square?

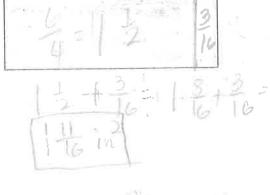
Name

Date

1. Measure each rectangle to the nearest $\frac{1}{4}$ inch with your ruler, and label the dimensions. Use the area model to find the area.





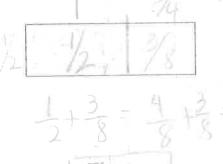


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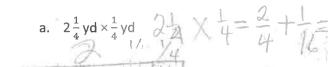
c.

		a.,	4 6				Α.
			1			2	41
			9			4	
0							Z
/\							V
					٠.		
1	-			7/1		340	





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



3+8-36

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

25+334+133+

- 4. Shannon and Leslie want to carpet a $16\frac{1}{2}$ ft by $16\frac{1}{2}$ ft square room. They cannot 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?

久主义2号-4+号+号+与=

 $16\frac{1}{2}$ ft Entertainment System

 $16\frac{1}{2}$ ft

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

to buy?

与= 256+等+等+二=

256+16+4=272+ft

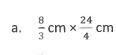
Lesson 12:

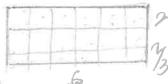
Measure to find the area of rectangles with fractional side lengths.

Name

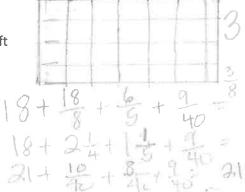
Date

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

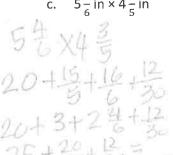




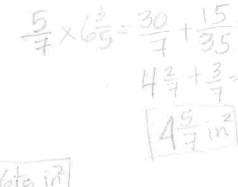
 $\frac{32}{5}$ ft × $3\frac{3}{8}$ ft



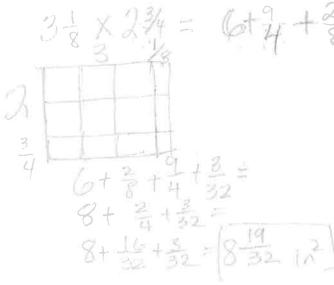
c. $5\frac{4}{6}$ in $\times 4\frac{3}{5}$ in



 $d_0 = \frac{5}{7} \, \text{m} \times 6 \frac{3}{5} \, \text{m}$



Chris is making a tabletop from some leftover tiles. He has 9 tiles that measure $3\frac{1}{8}$ inches long and $2\frac{3}{4}$ 2十元=6十日十十年十号:5十年 inches wide. What is the greatest area he can cover with these tiles?



Lesson 13:

Multiply mixed number factors, and relate to the distributive property and the area model.

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?

31 8 × 19 = 589 + 31 + 133 + 76 589+15=+1658+16 620+=+5+76=630+8+76+76+76

(B) 12 × 334 = 36+36=45A2

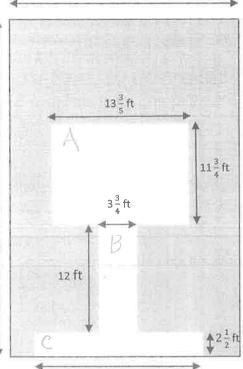
O 17 × 22 = 34+82

159号(器)

45 42 生 (后)

246 13

12473/10 ft2



42 1 1 12

17 ft

90

48

42 = 21

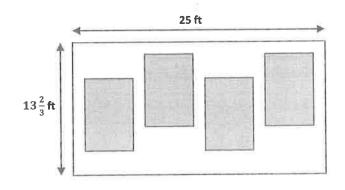
384 36AZ

There will be needed 384 2/80 ft?

Name

Date

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?

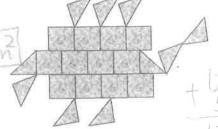
Menus will have 180 AZ of space

What is the area of wall space that is not covered by chalkboard paint? $25 \times 13 = 325 + 163 = 325 = 325 + 163 = 325 = 325 + 163 = 325 =$

3413 180 The area is not covered 1613 is 1613

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

9=x4=-16+=+=+== 16+2+2+4= 20



20 =×17=340+in-

The total area is 340 4



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

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 $6\frac{1}{3}$ -ft long

How many square feet of glass will they need?

$$4 + 2 \times 3 = 12 + 2 + 2 + 2 = 12 + 2 + 2 + 2 = 12 + 2 + 2 + 2 = 1$$

If the lawn measures $40\frac{4}{5}$ ft by $50\frac{7}{8}$ ft, how many square feet of seed will he need to cover the entire 0 45×50 7/8 = 2000 +380 + 280 + 28 + 28 = 2000 435+40+7

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

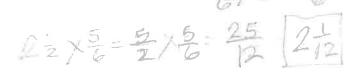
10+500 = 47/500 = D 2,0.75 1/0=300=6276=7 He needs 5 bags for the highest 3 for the lowest se

Name	
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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 of the picnic table in square feet?





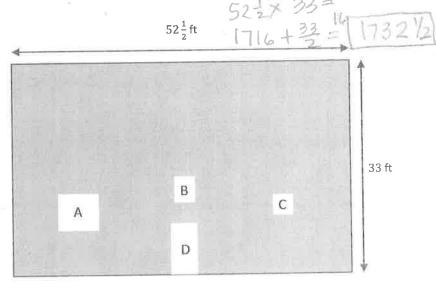
The area of the table is 2 ½ y22

2. A painting company will paint this wall of a building. The owner gives them the following dimensions:

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

What is the area of the painted part of

the wall? $6\frac{1}{4} \times 5\frac{3}{4} = 30 + \frac{18}{4} + \frac{3}{4} + \frac{3}{16} = 30 + \frac{18}{4} + \frac{3}{16} + \frac{3}{16} = 35 + \frac{3}{16} =$



 $A = \frac{135 \times 10^{11}}{35 \times 10^{11}}$ $35 \times 10^{11} \times 10^{11} \times 10^{11}$ $35 \times 10^{11} \times 10^{11} \times 10^{11}$ $88 + \frac{1212 + 12}{89 \times 10^{11}}$ 89×10^{11} 1732×10^{11} 1732×10^{11} 16

1932 = 189 1/6

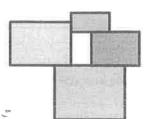
D= 4×8=32ff2
The area of the painted part is 1643 % f



Lesson 15:

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

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?



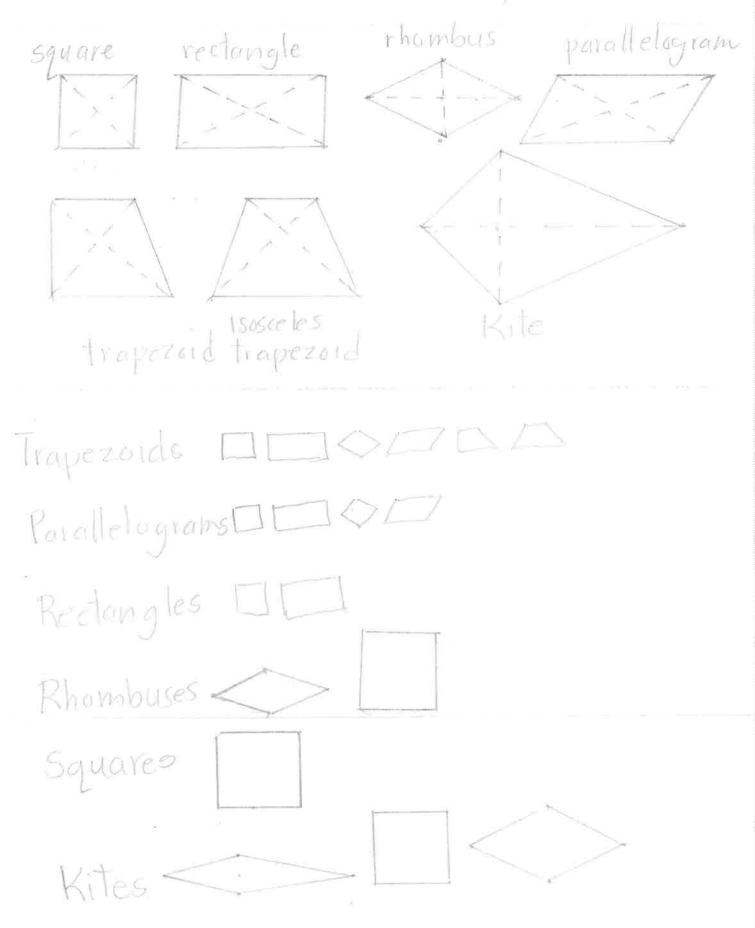
$$4) \frac{114}{14} = \frac{154}{163} + \frac{14}{4} + \frac{1}{8} = \frac{154}{163} + \frac{14}{8} = \frac{154}{163} + \frac{14}{18} = \frac{154}{163} + \frac{14}{18} = \frac{154}{18} = \frac{154}{18} + \frac{14}{18} = \frac{154}{18} = \frac{154}{18}$$

The total area of the entire piece is 375 34in2

Lesson 15:

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

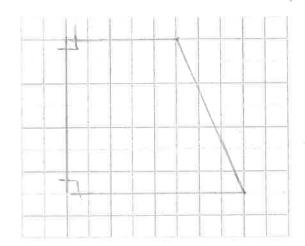
Quadrilaterals



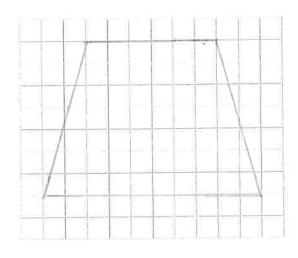
Name _____

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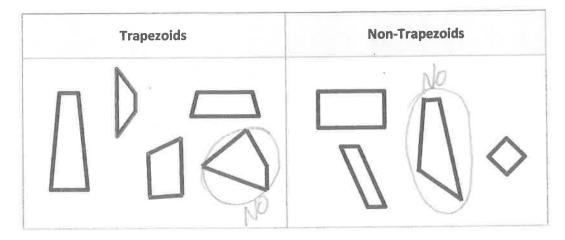
- 1. Use a straightedge and the grid paper to draw:
 - a. A trapezoid with exactly 2 right angles.



b. A trapezoid with no right angles.



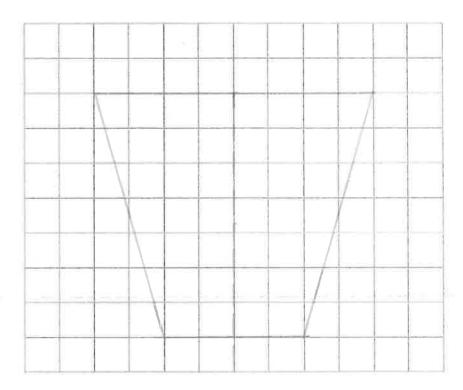
- 2. Kaplan incorrectly sorted some quadrilaterals into trapezoids and non-trapezoids as pictured below.
 - a. Circle the shapes that are in the wrong group, and tell why they are sorted incorrectly.



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

A straighead and a 450 degree triangle. to check on the parallel lines.

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



Why is this shape called an isosceles trapezoid?

It is an isoseles trapezoid because a line of symetry can bisect the figure into two opposite sides.

Also, it has 2 equal sides.

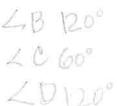
Name .

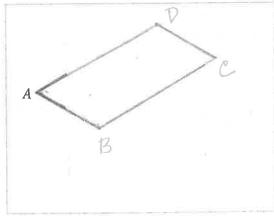
1. $\angle A$ measures 60°.

Listhe symbol

a. Extend the rays of $\angle A$, and draw parallelogram ABCDon the grid paper.

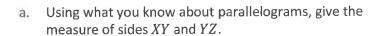






X

2. WXYZ is a parallelogram not drawn to scale.



b. $\angle WXY = 113^{\circ}$. Use what you know about angles in a parallelogram to find the measure of the other angles.



6 cm

3. Jack measured some segments in Problem 2. He found that \overline{WY} = 8 cm and \overline{MZ} = 3 cm.

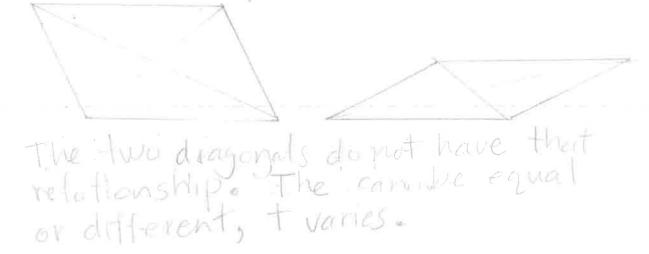
Give the lengths of the following segments:

$$WM =$$
 cm $MY =$ cm $XZ =$ cm

$$XZ =$$
 cm

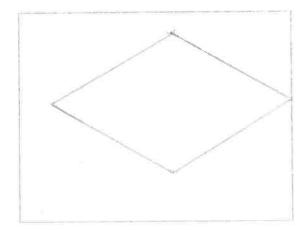
4. Using the properties of shapes, explain why all parallelograms are trapezoids.

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.

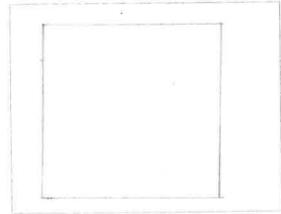


Name Date _____

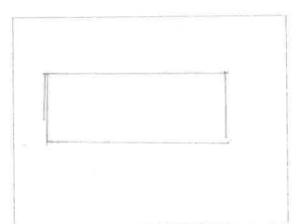
- 1. Use the grid paper to draw.
 - a. A rhombus with no right angles



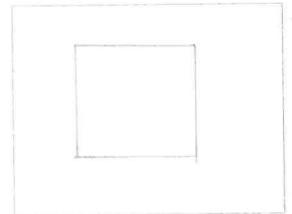
b. A rhombus with 4 right angles



c. A rectangle with not all sides equal



d. A rectangle with all sides equal



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.

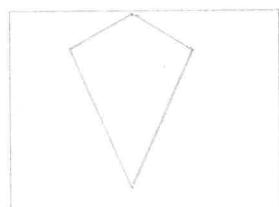
Rition buses have 4 equal sides Their diagonals bisect each other Rhombuses are parallelograms Rhombuses are trapezoids

4. List the properties that all rectangles share.

Reclarges have 4 right angles
Their diagonals bisect each other Reclarges are a type of paralleling him Reclarges are a type of trapezoid

Name	Date	
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- Draw a kite that is not a parallelogram on the grid paper. 1.
 - b. List all the properties of a kite.



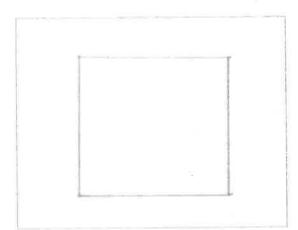
When can a parallelogram also be a kite?

a Kite when is a signare rhombus.

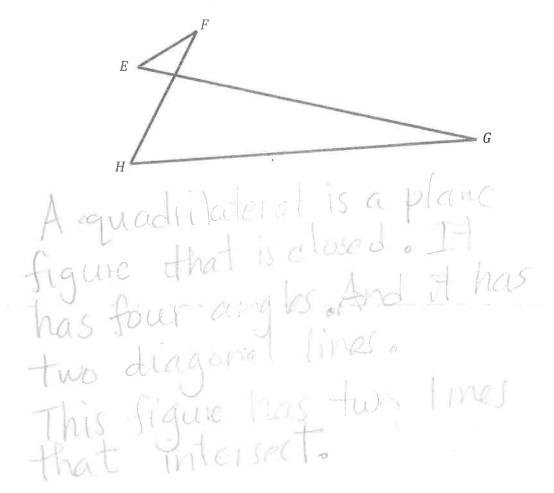
2. If rectangles must have right angles, explain how a rhombus could also be called a rectangle.

A rhombus is a rectargle is a square. A square has

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

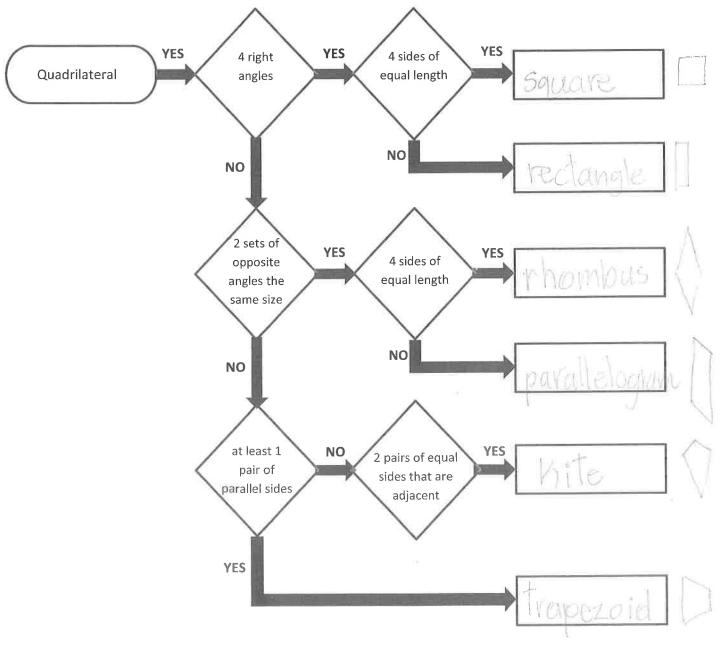


Kirkland says that figure EFGH below is a quadrilateral because it has four points in the same plane and four segments with no three endpoints collinear. Explain his error.



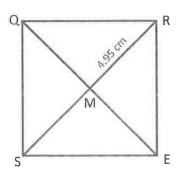
Name _____ Date ____

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





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.
$$RS = 9.90$$
 cm

b.
$$QE = 990$$
 cm

d.
$$m \angle QRE =$$
____o

Name	Date
Name	

- 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	Aiways	
3	V	Yes no
	4	
	$\sqrt{}$	
	V	
		- HES HES TO
\sim		

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.

A trapezoid is not a privallelogram when it has only one set of parallel lines.

b. Explain when a kite is not a parallelogram. Sketch an example.

A kite is not a parallelogicum when it does not have any parallel lines.



