Name_____

5th Grade Math Remote Learning Packet

Week 30

Day # 1

Mod 5 Packet 8

Name:_____ Week 30 Day 1 Date:_____

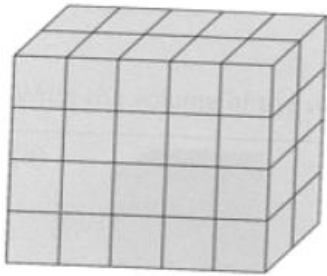BCCS-Boys   Stanford   MIT

Do Now

Find the volume of the figures.
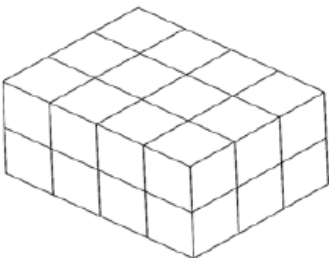
a.

L: _____cm   W: _____cm   H: _____cm

Volume:_____cm³

b.

L: _____cm   W: _____cm   H: _____cm

Volume:_____cm³

Area Review

Area Formula _____

Steps to Finding Fractional Area	**Ex:**
1. _____ any mixed _____ to an _____ fraction.	$3\frac{1}{2}$ in $\times$ $\frac{2}{3}$ in
2. _____ straight _____ .	
3. _____ whenever _____ .	

Input Activity

Problem 1

Margo is designing a label. The dimensions of the label are $3\frac{1}{2}$ inches by $1\frac{1}{4}$ inches. What is the area of that label?

Step 1: With your ruler, draw a rectangle that has a length of $3\frac{1}{2}$ and a width of $1\frac{1}{4}$.

Step 2: Label the length and width.

Step 3: Use the area formula (length x width) to find the area of the rectangle.

- Change the mixed numbers to improper fractions
- Multiply numerators first, then denominators second
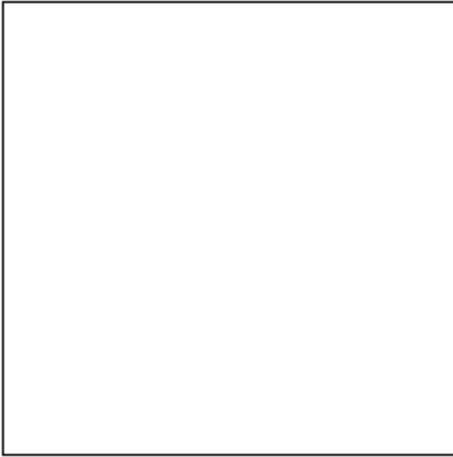- Reduce when necessary.

Measure each rectangle to the nearest $\frac{1}{4}$ inch with your ruler, and label the dimensions. Use the area model to find each area.
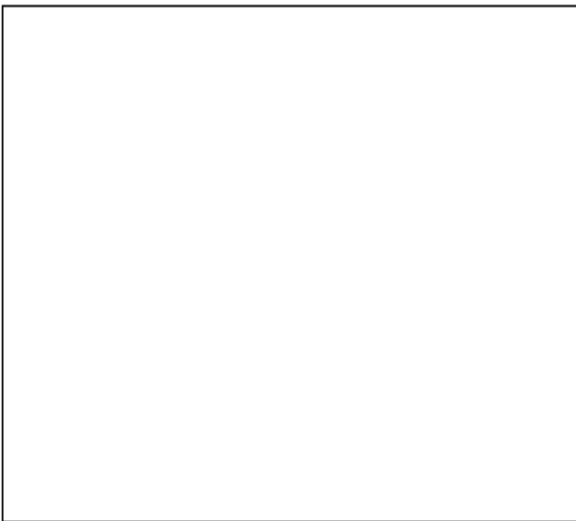
Problem 2
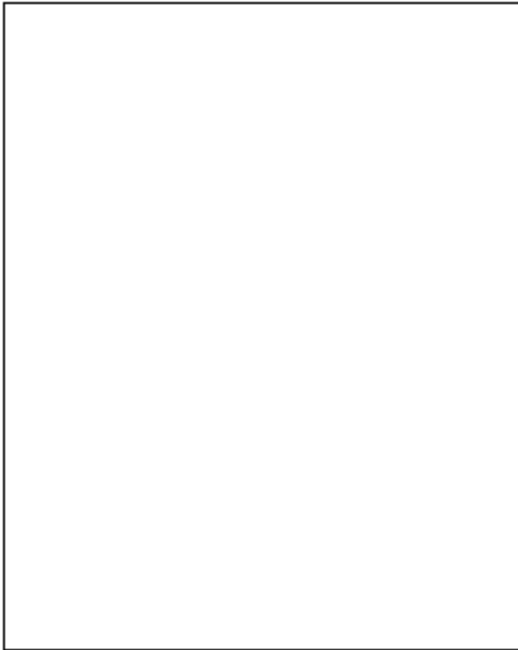
Area = Length x Width

Problem 3

Area = Length x Width

Problem 4

Area = Length x Width

Problem 5

Area = Length x Width

Problem 6

Area = Length x Width

Problem 7

Area = Length x Width

Problem 8

Find the area of rectangle with the following dimensions.

$$2\frac{1}{2} \text{ yd x } 1\frac{3}{5}\text{yd}$$

Problem 9

Find the area of a rectangle $1\frac{1}{5}$ inches $\times$ $1\frac{3}{2}$ inches.

Problem 10

Find the area of a rectangle $\frac{5}{4}$ km $\times$ $\frac{12}{5}$ km.

Problem Set

Find the area of the following rectangle.

$$1\frac{12}{2}\,\text{m x } 1\frac{1}{5}\,\text{m}$$

Answer: _____m

Application Problem

A rectangular bulletin board is $\frac{1}{5}$ meters wide and $\frac{5}{8}$ meters long. What is the area of the bulletin board?

Answer: _____m²

Exit Ticket
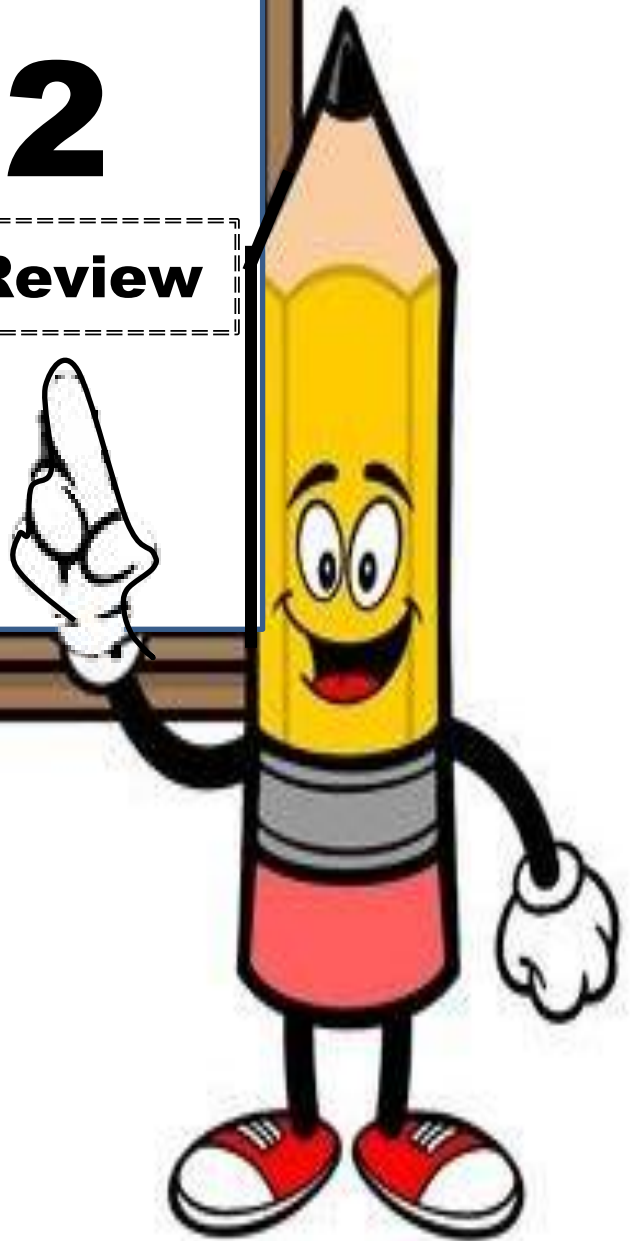
Find the area of the following rectangles.

$$\frac{7}{5} \text{ mm} \times 3\frac{4}{2} \text{ mm}$$

Answer: _____ mm²

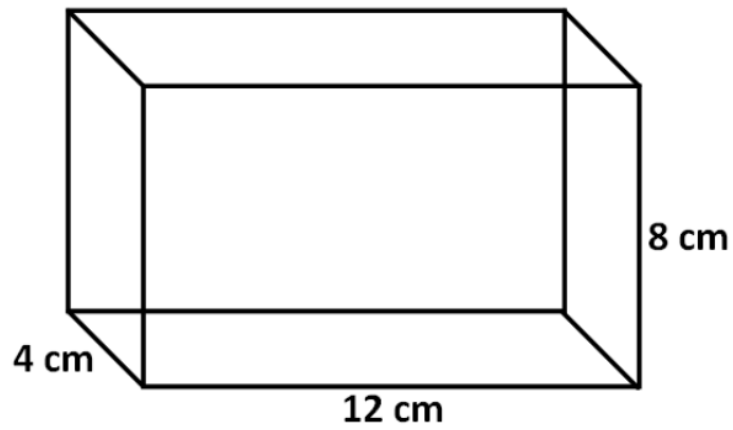# Day # 2

Mod 5 Mid-Mod Spa Review

Name:_____ Week 30 Day 2 Date:_____

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Do Now

Find the volume of the following figure.

8 cm

4 cm

12 cm

Volume: _____cm³
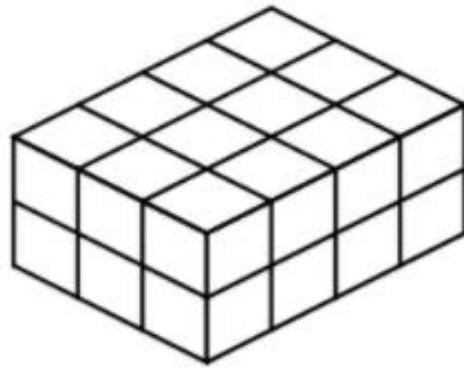
Mod 5 Mid-Mod SPA Review

Tell the volume of each solid figure made of inch cubes. Specify the correct unit of measure.
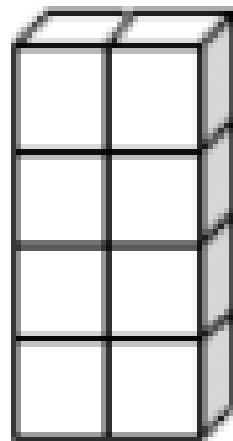
Problem 1

L= _____

W= _____

H= _____

Volume = _____

Problem 2

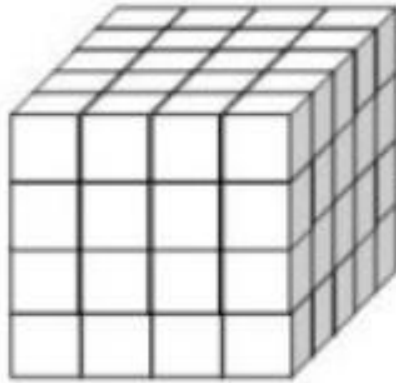L= _____

W= _____

H= _____

Volume = _____

Problem 3

L= _____

W= _____

H= _____

Volume = _____

Problem 4

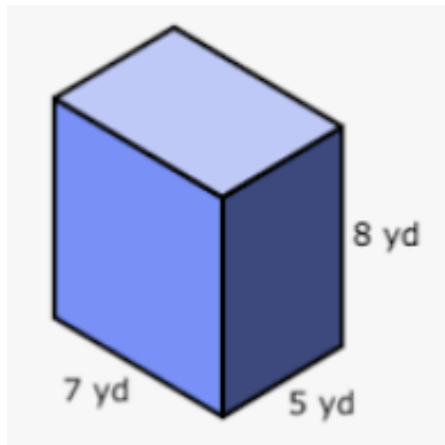L= _____

W= _____

H= _____

Volume = _____

8 yd

7 yd   5 yd

Find the value of the following expressions.

Problem 5

$$5 \times [3 + (12 - 9)] \div 10$$

Answer: _____
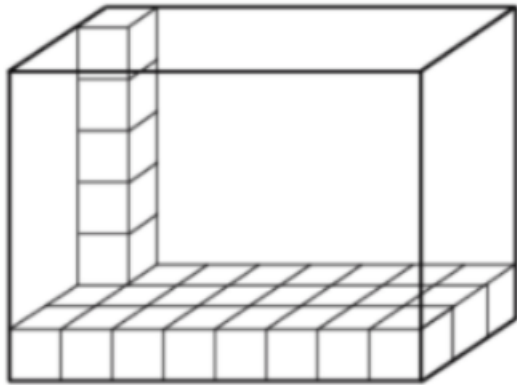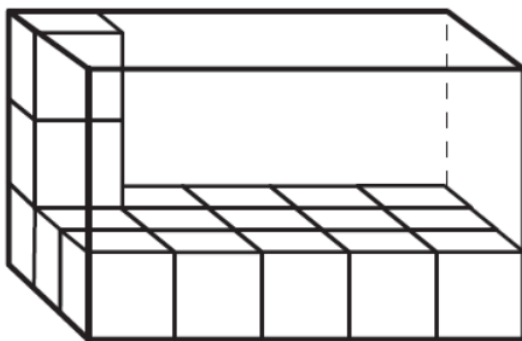

Problem 6

$$16 \div 4 + 3 \times 5$$

Answer: _____

Find the volume of the following prisms.

Problem 7

Volume: _____

Problem 8

Volume: _____

Problem 9

What operation would you need to solve first?

$$42 \div 6 + 7 - 6\,(13 - 4)$$

A. $42 \div 6$

B. $6 + 7$

C. 6×13

D. $13 - 4$

Problem 10

Kazier completely filled a box with cubes. As he filled the box he counted the number of cubes he used to fill the box. What type of measurement is represented by the number of cubes Kazier counted?

A. volume
B. height
C. area
D. width

Problem 11

Which expression is equivalent to the expression below?

$$4 + [(5 \times 3) - 2] - 3$$

A. $4 + 20 - 3$

B. $4 + 13 - 3$

C. $4 + 18 - 3$

D. $4 + 10 - 3$

Problem 12

Which expression is equivalent to 60?

A. $50 + 10 - 6$

B. $20 \times 2 + (10 + 30)$

C. $(16 \times 2) + (7 \times 4)$
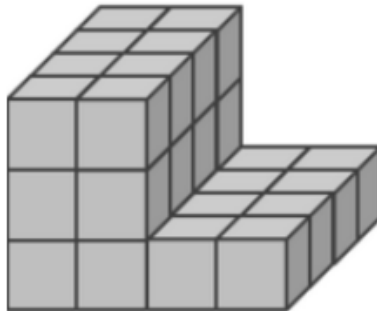
D. $100 - 5 \times (2 + 10)$

Problem 13

Marley constructed a robot for his science fair project. The dimensions of the robot's body were 12 feet by 5 feet by 4 feet. What was the volume of his robot's body?

Answer: _____feet³

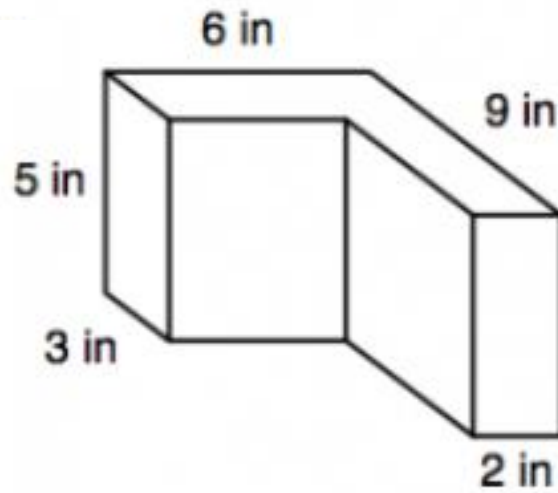# Problem 14

What is the volume of the irregular shape?

Answer: _____cubic units

Problem 15

What is the volume of the irregular shape?
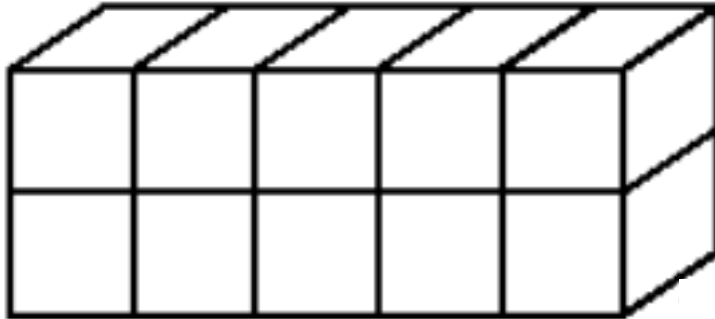
6 in

9 in

5 in

3 in

2 in

Answer:_____in^3

Problem 16

Prism A is shown below. The volume of Prism B is **15 cubic centimeters less** than the volume of Prism A.
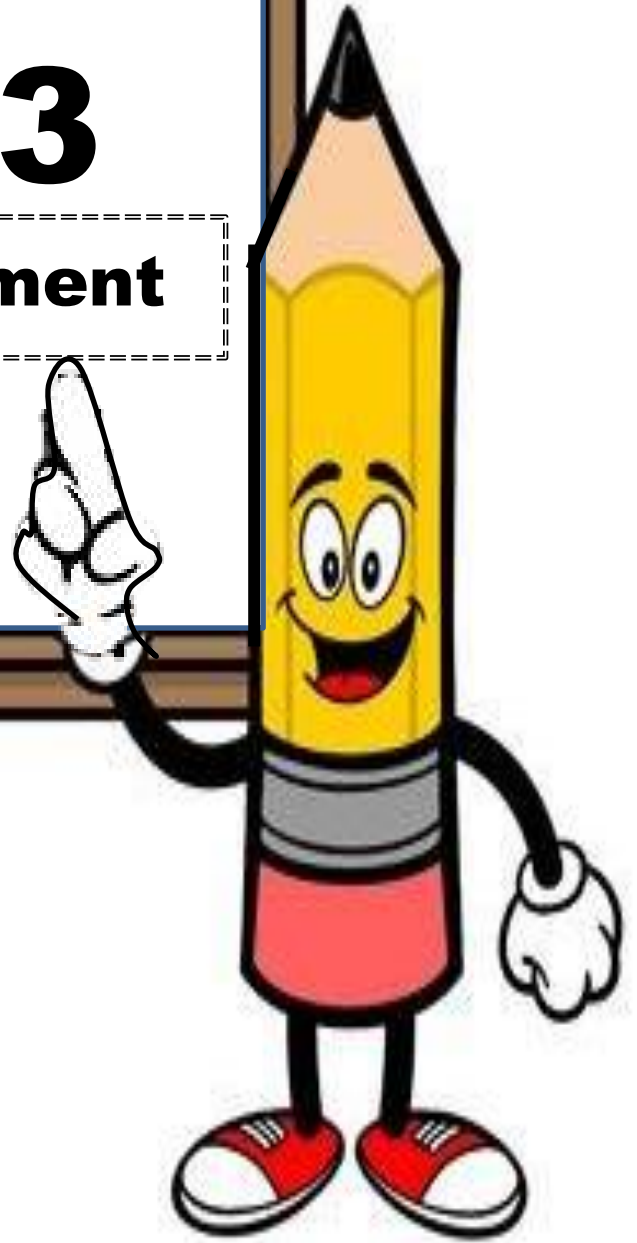
Prism A
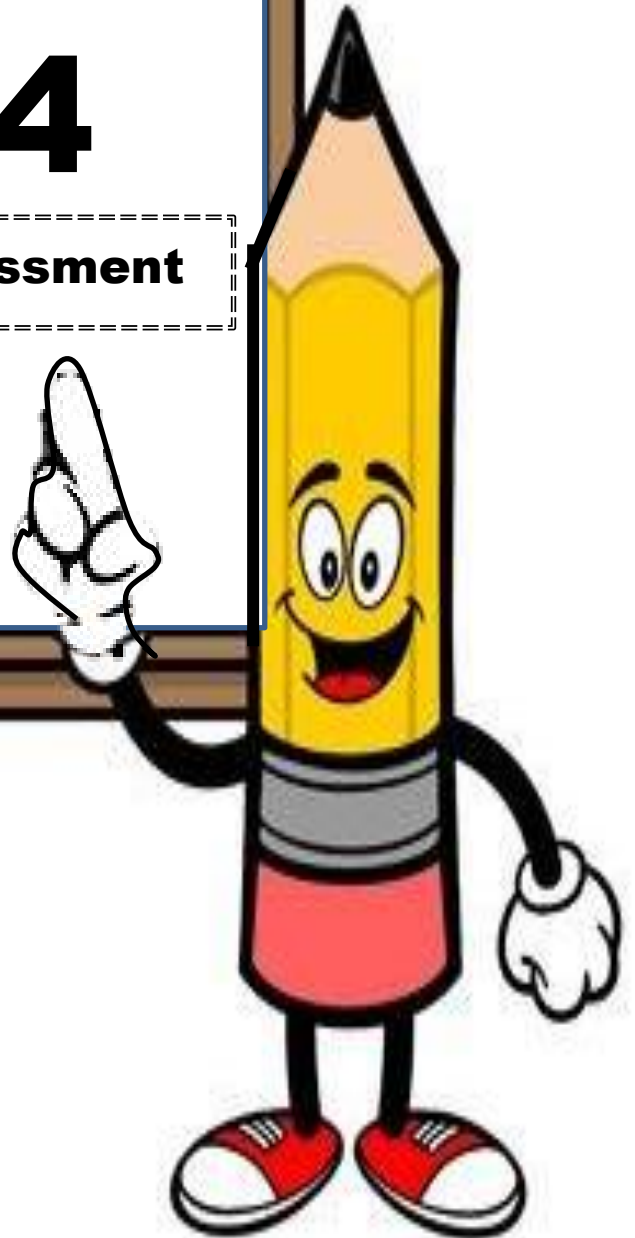
What is the volume of **Prism B**?

Answer: _____cm³

Brighter Choice
Charter School for Boys

Day # 3

NYS ELA Assessment

Brighter Choice
Charter School for Boys

Day # 4

Mod 5 Mid-Mod Spa Assessment

Name:_____ Week 30 Day 4 Date:_____

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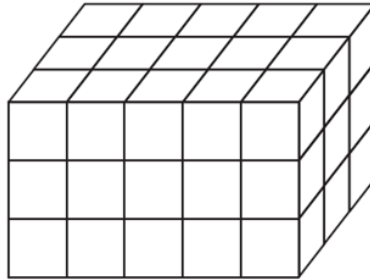## Module 5 Mid-Module Assessment

Directions: Make sure to show *all* your work and complete each part. Good luck! ☺

Part I: Multiple Choice

——— 1. Find the volume. (5.MD.4)

A. 9 cubic units

B. 11 cubic units

C. 30 cubic units

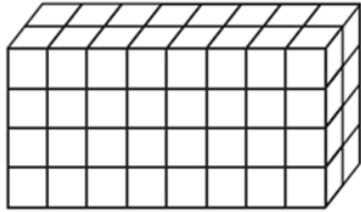**D.** 45 cubic units

——— 2. What is the value of the expression below? (5.OA.1)
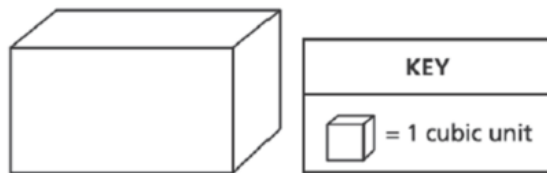
$$4 + [4 \times (5 - 2)] \div 2$$

A. 10

B. 4

C. 2

D. 12

_____ 3. Find the volume. (5.MD.4)

A. 14

B. 32

C. 64

D. 96

_____ 4. Tyler completely filled the box shown below with cubes. He then counted the number of cubes that he used to fill the box. What type of measurement is represented by the number of cubes Tyler counted? (5.MD.3a)

KEY

= 1 cubic unit

A. area

B. height

C. volume

D. perimeter

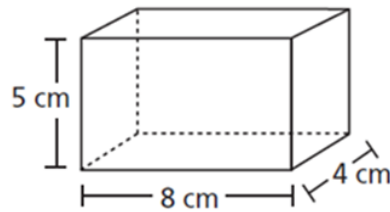_____ 5. Which expression is equivalent to 32? (5.OA.1)

A. $(30 + 6) \div 3$

B. $2 \times (9 + 7)$

C. $9 \times (3 + 5)$

D. $6 + 2 \times 4$

_____ 6. James made the box shown below. The box was shaped like a
right rectangular prism. (5.MD.5)

What was the volume in cubic centimeters of the box?

A. 40 cm³

B. 44 cm³

C. 18 cm³

D. 160 cm³

—— 7. What is the solution to expression below (5.OA.1)

$$4 + [(5 \times 3) - 2] - 3$$

A. 14

B. 15

C. 16

D. 17

—— 8. Sylvester has a box whose length is 12 cm, height 8 cm, and width 6 cm. Find the volume of a box. (5.MD.5)

A. 540 cm³

B. 567 cm³

C. 576 cm³

D. 26 cm³

_____ 9. What operation must be done **first** when solving the following expression? (5.OA.1)
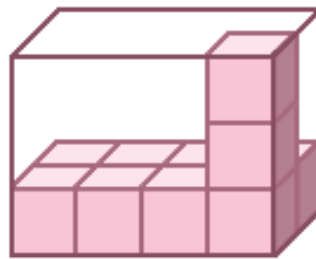
$$8 + 24 \div (2 \times 6) - 4$$

A. 8 + 24

B. 2 x 6

C. 24 ÷ 2

D. 6 – 4

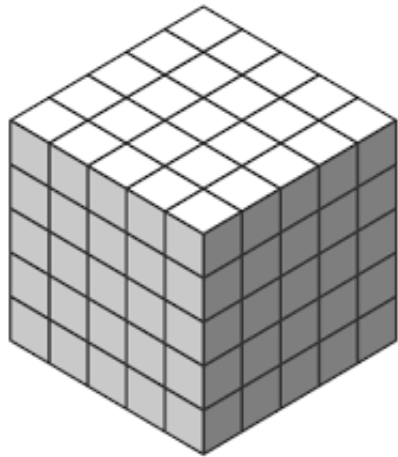_____ 10. What is the volume of the following rectangular prism? (5.MD.3b)

A. 24

B. 12

C. 22

D. 20

PART II: Short Answer: Show all of your work in this part of the assessment.

11. Label the length, width, and height of the following figure.
    (5.MD.4)

L= _____

W= _____

H= _____

What is the volume, in cubic centimeter, of the figure below?
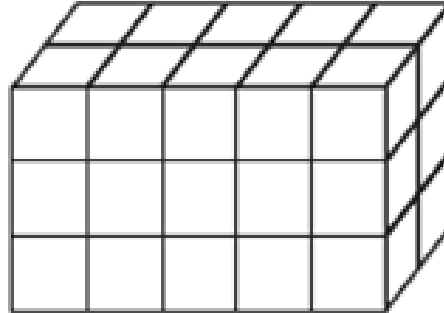
Answer _____cm³

12. Solve the following problem. (5.OA.1)

$$5 \times (3 + 4) + (7 \times 2)$$

Answer _____

13. Prism X is shown below. **The volume of Prism Y is 10 cubic centimeters greater than the volume of Prism X**.
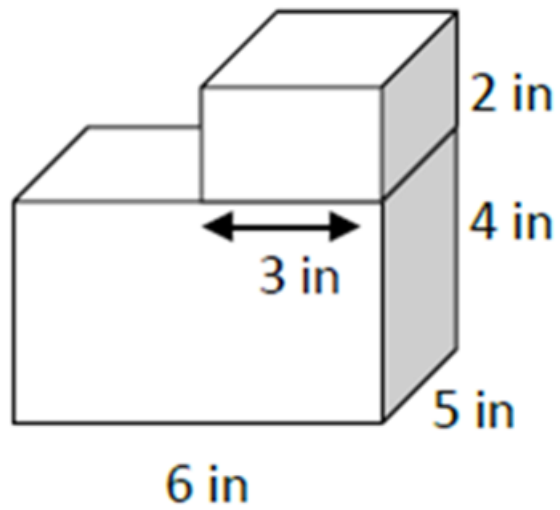
(5.MD.5b)

Prism X

What is the volume of **Prism Y**?

Answer _____ cm³

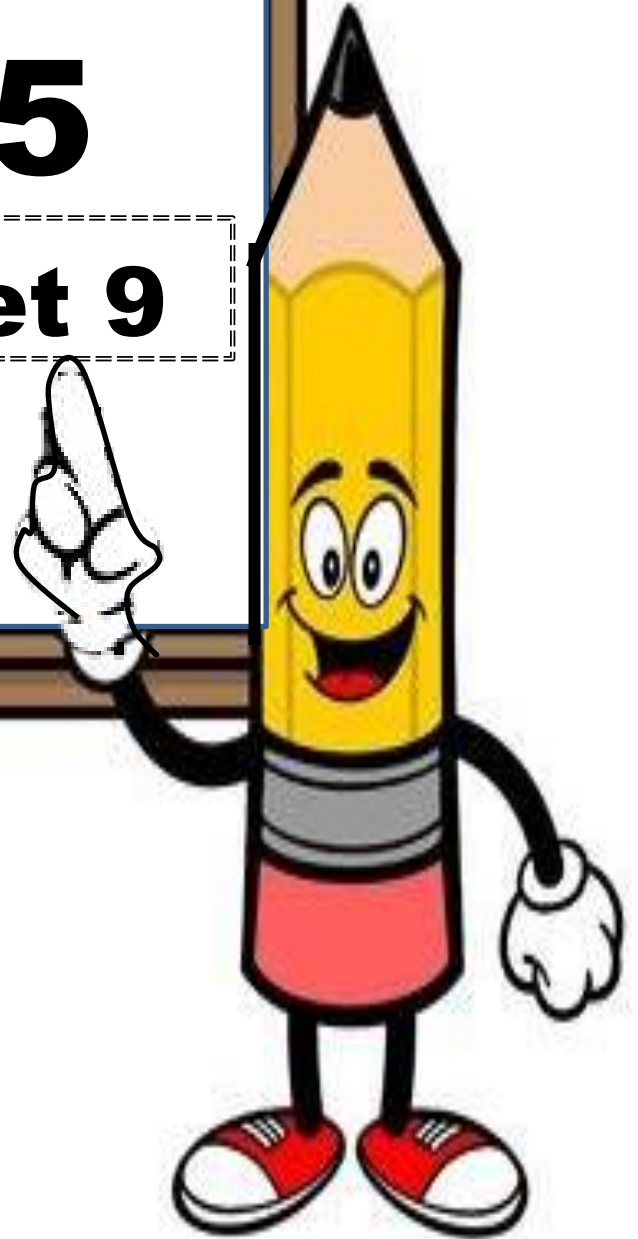14. What is the volume of the two overlapping figures? (5.MD.5c)

2 in

4 in

3 in

5 in

6 in

Answer: _____ in³

Day # 5

Brighter Choice
Charter School for Boys

Mod 5 Packet 9

Name:_____ Week 30 Day 5 Date:_____

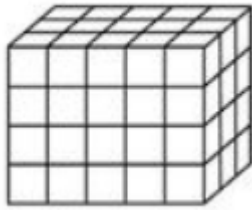BCCS-Boys   Stanford   MIT

Do Now

Find the volume of the figures.
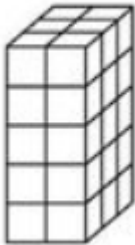
a.

L: _____cm   W: _____cm   H: _____cm

Volume:_____cm³

b.

L: _____cm   W: _____cm   H: _____cm

Volume:_____cm³

Input Activity

Problem 1

George decided to paint a wall with a window. The window is $3\frac{1}{2}$ ft. by $2\frac{1}{3}$ ft. rectangles. Find the area the paint needs to cover.

Answer: _____ ft²

Problem 2

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

Answer: _____ ft²

Problem 3

Mr. Moore made his wife a rectangular vegetable garden. The width is $2\frac{2}{3}$ ft, and the length is $2\frac{1}{4}$ ft. What is the area of the garden?

Answer: _____ft²

Problem 4

Mr. Pierce wants to paint menus on the wall of his café in chalkboard paint. Each menu will measure 6-ft wide and $5\frac{1}{2}$ft tall. What is the area of each menu?

Answer: _____ft²

Problem 5

Mr. Stallings needs to buy seed for his backyard lawn. If the lawn measures $3\frac{1}{2}$ ft. by $2\frac{1}{3}$ft, how many square feet of seed will he need to cover the entire area?

Answer: _____ft²

Problem 6

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?
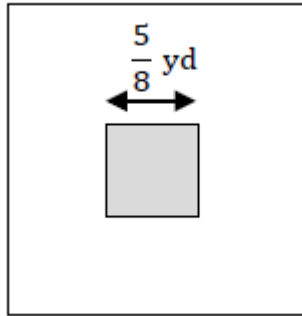
Answer: _____m²

Problem Set

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 $1\frac{1}{5}$ cm. What is the area of each rectangle?

Rectangle A	**Rectangle B**	**Rectangle C**

Application Problem

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

$\frac{5}{8}$ yd

Answer: _____yd²

Exit Ticket

Wheat grass is grown in planters that are $3\frac{1}{2}$ inch by $\frac{3}{4}$ inch. What is the area covered by the planters?

Answer: _____in²

Name_____

5th Grade Math Remote Learning Packet

Week 31

- -

Dear Educator,

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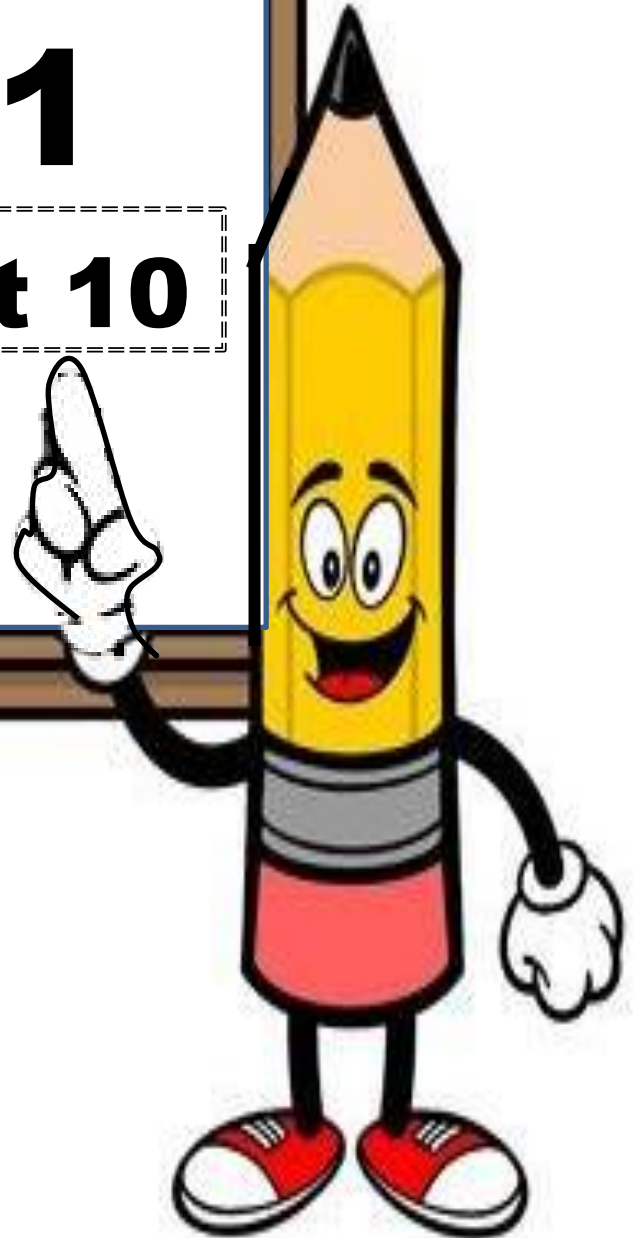
_____   _____
(Parent Signature)   (Date)

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

Day # 1

Brighter Choice
Charter School for Boys

Mod 5 Packet 10

Name:_____ Week 31 Day 1 Date:_____

Do Now

The length of a swimming pool is 2 times its width. If the width is $\frac{7}{8}$ yards long, what is the area of the of the pool in square yards?

Answer: _____ yds. ²

Input Activity

Quadrilaterals

Polygon - a _____ 2 dimensional _____ with _____ sides

Quadrilaterals - _____sided _____

Examples of Quadrilaterals: _____, _____, _____, _____, _____, _____, _____

Key Terms

Congruent – a shapes _____are _____

Parallel - _____ lines that are the _____distance apart and _____ meet

Perpendicular - a _____ that _____another line and forms a _____ angle

Adjacent – when a line is _____ _____ another line

Rectangle

Attributes:

- A _____sided shape

- 4 _____ angles that measure _____

- _____ sides are _____ (equal)

- _____ sides are _____

- ____ pair of _____ sides

- Also known as a _____

Examples:
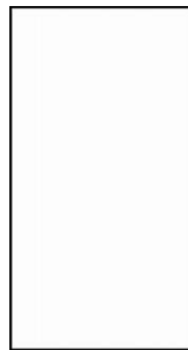
Rhombus

Attributes:

- A _____sided shape

- All _____ sides are _____ (equal)

- _____ sides are _____

- _____ pair of _____ sides

- _____ angles are _____ (equal)
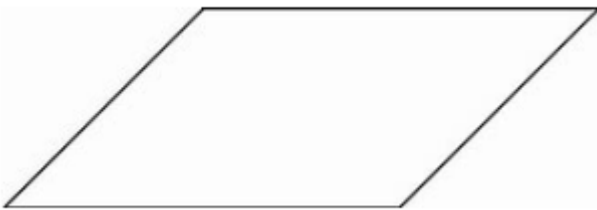
- Also known as a _____ and _____

Examples:

Square

Attributes:

- A _____ sided shape

- All _____ sides are _____ (equal)

- _____ sides are _____

- _____ pair of _____ sides

- 4 _____ angles that measure _____

- Also known as a _____, _____, and _____

Example:

Parallelogram

Attributes:

- A _____sided shape

- _____sides are _____ (equal)

- _____ angles are _____ (equal)

- _____ pair of _____ sides

Example:

Trapezoid

Attributes:

- A _____sided shape

- _____ pair of _____ sides

Examples:
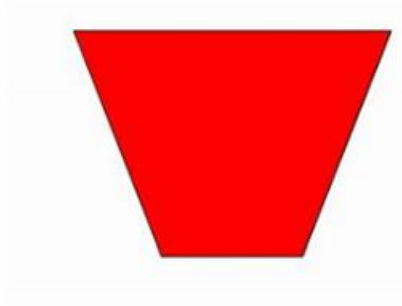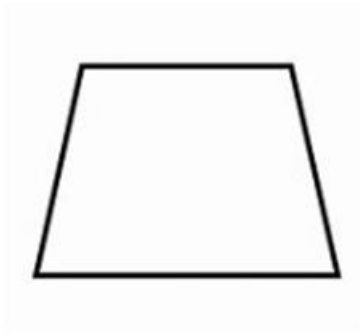
Kite

Attributes:

- A _____sided shape

- 2 pair of _____ and _____ sides

- One pair of _____ angles that are _____

Examples:
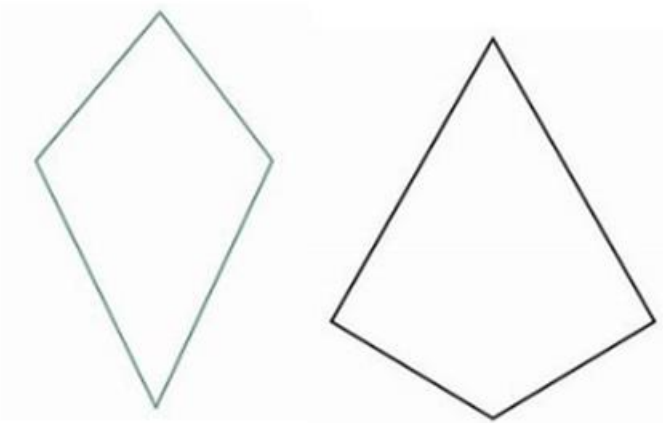
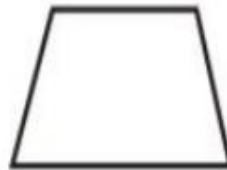# Quadrilateral Match Activity

Google Slides Activity

Problem Set

1.

2.

3.

_____

_____

_____

4.

5.

6.

_____

_____

_____
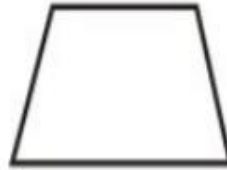
7.

8.

9.

_____

_____

_____

Application Problem

Beysean drew a quadrilateral with no right angles. One pair of opposite sides in this quadrilateral was parallel and measured 5 centimeters. The other pair of opposite sides was parallel and measured 3 centimeters. What type of figure did Beysean draw?

Answer: _____

Exit Ticket

Label each picture with the correct quadrilateral. Use the word bank below to correctly identify each quadrilateral.
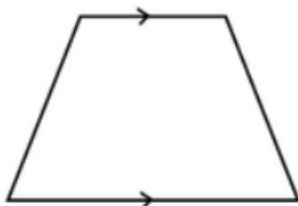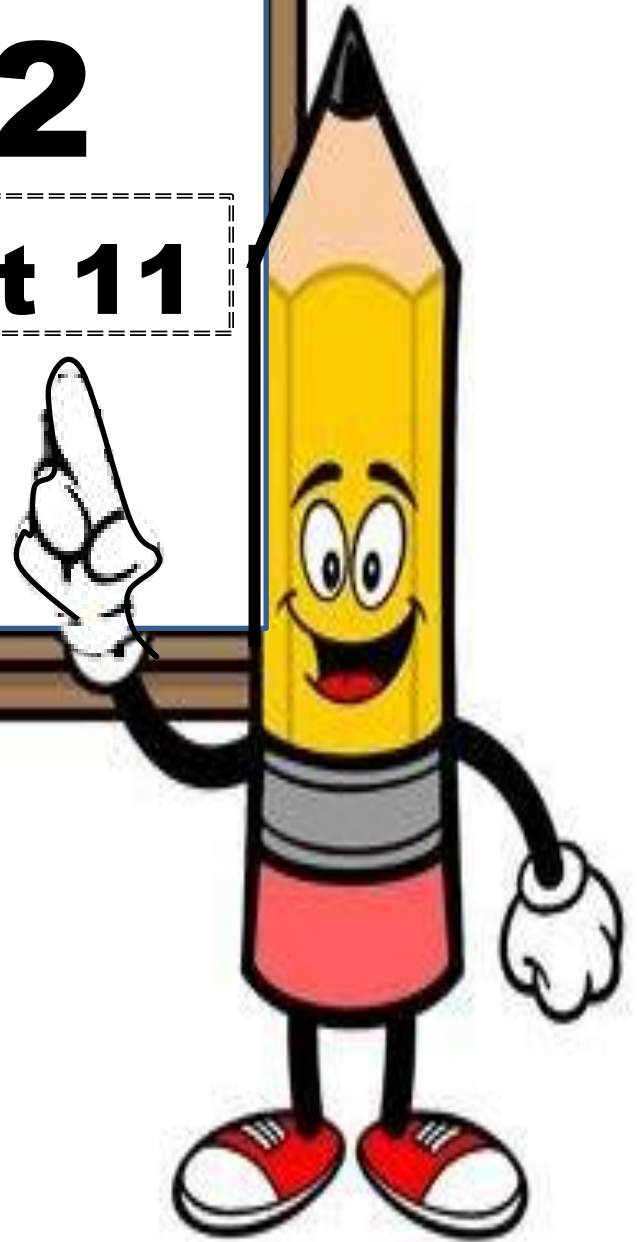

| parallelogram | square | rhombus | rectangle |

_____

_____

_____

_____
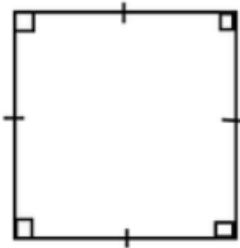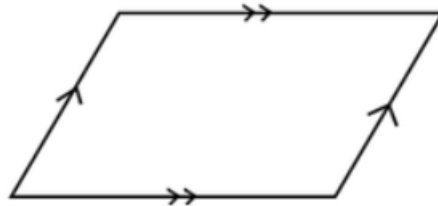
Day # 2

Mod 5 Packet 11

Name:_____ Week 31 Day 2 Date:_____

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Do Now

Solve the following questions.

Which shape always has 4 congruent sides?

A. parallelogram

B. rectangle

C. rhombus

D. trapezoid

Ursula drew in which all the angles were obtuse. What kind of polygon could she have drawn?

A. trapezoid

B. parallelogram

C. triangle

D. pentagon

Input Activity
Quadrilateral Nearpod Activity

Nearpod Code _____

Problem Set

Quadrilaterals are any polygon with four sides and four angles.

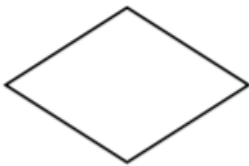| Square	Rectangle	Parallelogram	Rhombus	Trapezoid
All sides are the same length; there are four right angles	Opposite sides are parallel and the same length; there are four right angles	Two pairs of opposite parallel sides	Two pairs of parallel sides; all sides are the same length	Only one pair of parallel sides

Write the name of each quadrilateral.

a.

_____

b.

_____
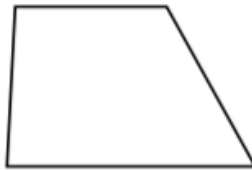
c.

_____
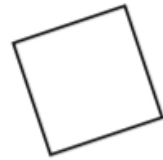
d.
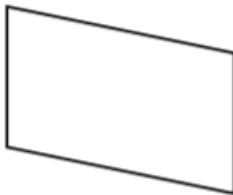
_____

e.

_____

f.

_____

Application Problem:

Maria drew a rectangle. Which other shape could her rectangle be called?

Answer _____

Exit Ticket

A square and a rhombus are shown below.

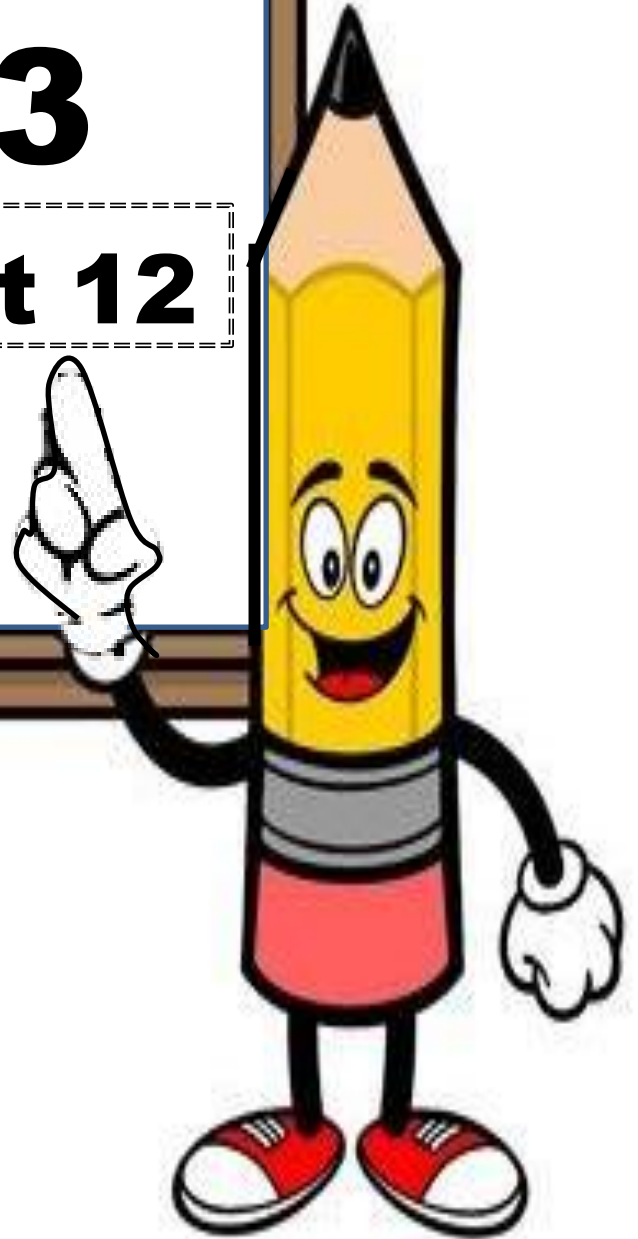Which attribute is true of one of the shapes but **not** of both?

A All angles are right angles.

B All sides are the same length.

C There are two sets of equal angles.

D There are two sets of parallel sides.

Brighter Choice
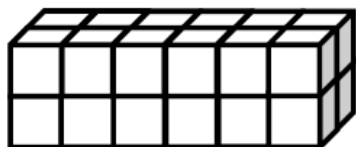## Charter School for Boys

Day # 3

Mod 5 Packet 12

Name:_____ Week 31 Day 3 Date:_____
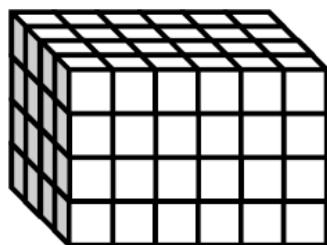
BCCS-Boys   Stanford   MIT

Do Now

Find the volume of the figures.

L: _____cm   W: _____cm   H: _____cm

Volume:_____cm³

L: _____cm   W: _____cm   H: _____cm

Volume:_____cm³

Input Activity:

Problem 1

James has a rectangular shaped room. He measures it and finds out it is $4\frac{1}{2}$ feet long by $2\frac{4}{5}$ feet wide. He wants to cover his entire room with black paint. How many square feet of black paint will he need to cover the whole room?

Answer _____ft²

Problem 2

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?

Answer _____cm³

Problem 3

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?

Answer _____ft³

Problem 4

Mrs. Jones is constructing a box in the shape of a rectangular prism to store clothes for the summer. It has a length of 20 inches, a width of 24 inches, and a height of 30 inches. What is the volume of the box?

Answer _____in³

Problem 5

Calculate the volume of each rectangular prism using the information that is provided.

a. Area: 56 square meters

b. Height: 4 meters

Answer _____m³

Problem 6

At the Middleton School festival, a tent covers a rectangular space $3\frac{1}{2}$ yards long and $5\frac{1}{3}$ yards wide. What is the area, in square yards, covered by the tent?

Answer _____yds²

Problem 7

A rectangular tank measures 30 cm by 20 cm by 40 cm. What is the volume of the tank?

Answer _____cm³

Problem 8

A small fish tank is filled to the top with water. If the tank measures 15 cm by 10 cm by 10 cm, what is the volume of water in the tank?

Answer _____cm³

Problem 9

Find the area of a rectangle $1\frac{1}{2}$ inches $\times$ $3\frac{3}{4}$ inches.

Answer _____ in²

Problem 10

Find the area of a rectangle $\frac{2}{3}$ m $\times$ $\frac{6}{8}$ m.

Answer _____ m²

Problem Set

1. A rectangular fish tank measures 26 cm by 20 cm by 5 cm. What is the volume of the fish tank?

Answer _____cm³

2. Find the area of the following rectangle.

$$3\frac{1}{2}\,\text{m} \times 1\frac{1}{3}\,\text{m}$$

Answer _____m²

Application Problem:

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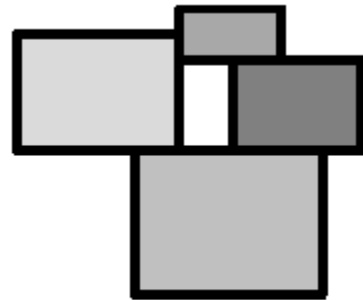
Exit Ticket

1. Find the volume of the rectangular fish tank in inches.
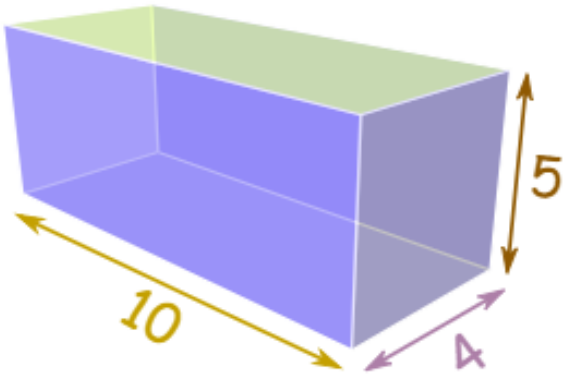
Volume: _____in³

2. John is designing a board game. The dimensions of the board game are $1\frac{1}{2}$ inches by $2\frac{1}{6}$ inches. What is the area of his board game?

Area: _____in²

Day # 4

Mod 5 End of Mod SPA Review
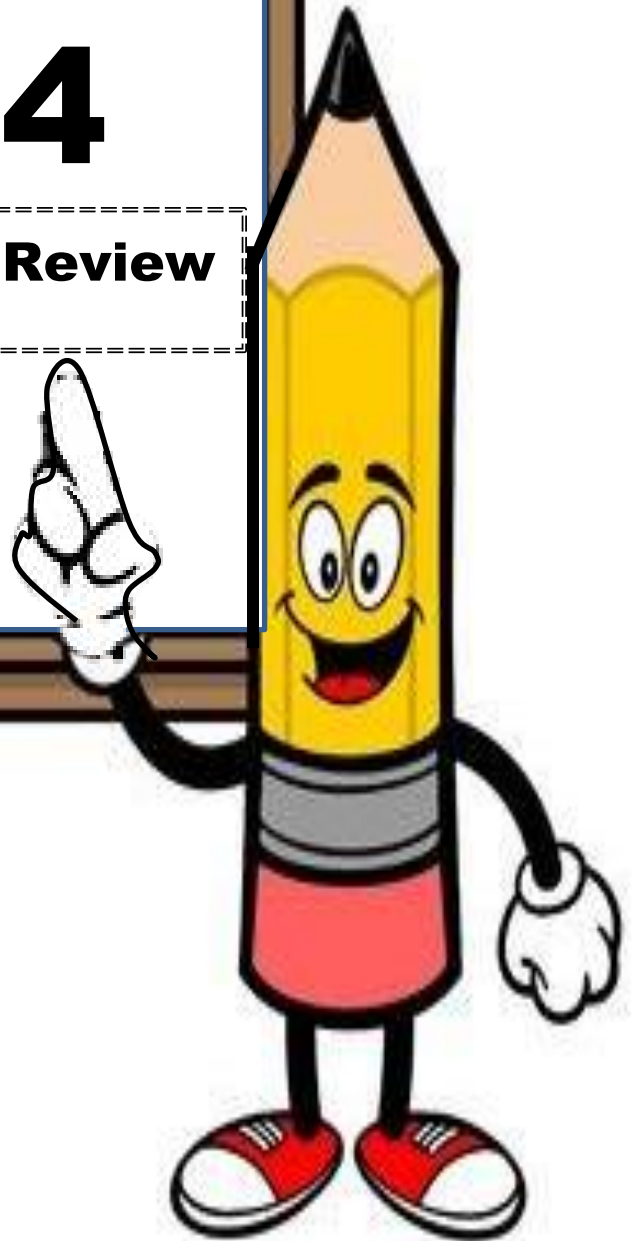
Name:_____ Week 31 Day 4 Date:_____

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Do Now

Find each volume:
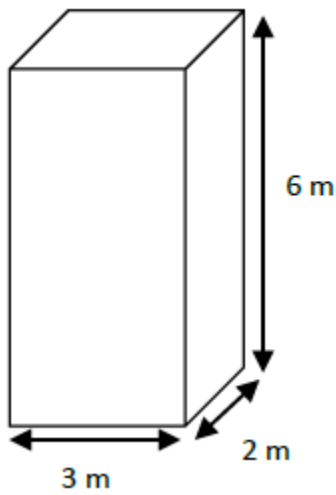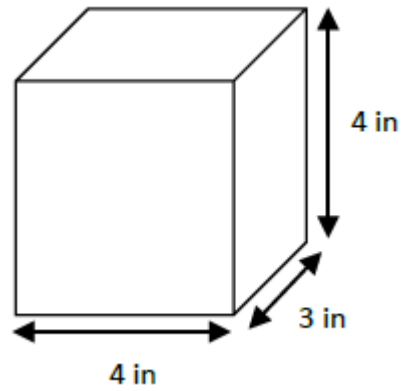
6 m 2 m 3 m	4 in 3 in 4 in
Volume: _____m³	Volume: _____in³

Review for End of Mod Assessment

Problem 1

Aaron used cubes to make the right rectangular prism below.
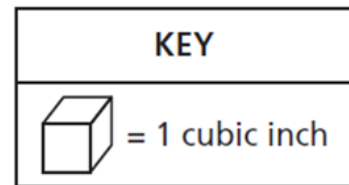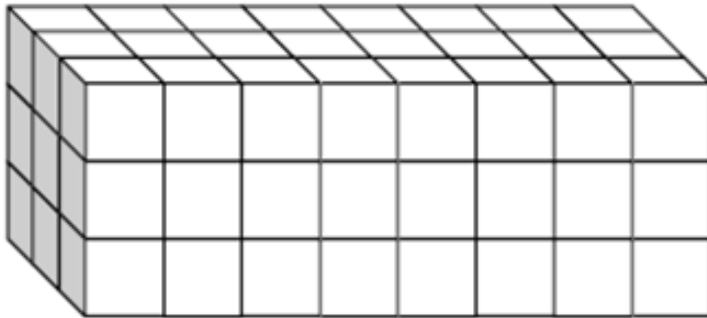
He then made a smaller right rectangular prism using $\frac{1}{6}$ of the number of cubes. What was the volume, in cubic inches, of the smaller right rectangular prism?

Volume: _____ in³

Problem 2

Mr. Smith is constructing a toy box in the shape of a rectangular prism to store his baby's toys. It has a length of 30 inches, a width of 22 inches, and a height of 15 inches. What is the volume of the box?

The volume of the toy box is _____in³.

Problem 3

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?

The volume if the rectangular prism is _____ft³.

Problem 4

Which model shows one way to determine the area of a rectangle that is $\frac{2}{7}$ foot long and $\frac{3}{4}$ foot wide?

A.

C.

B.

D.
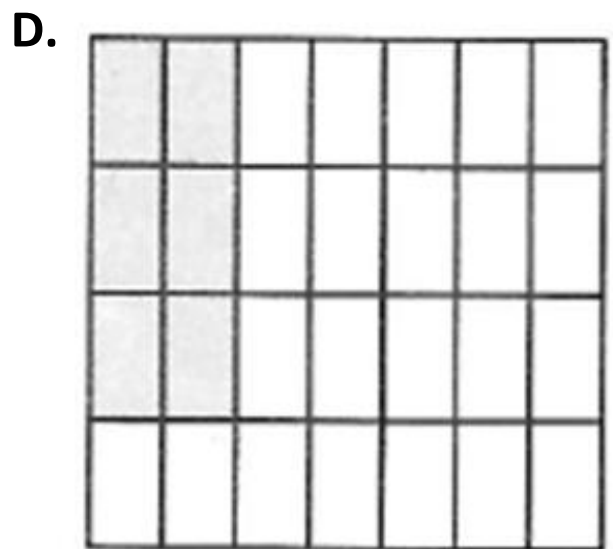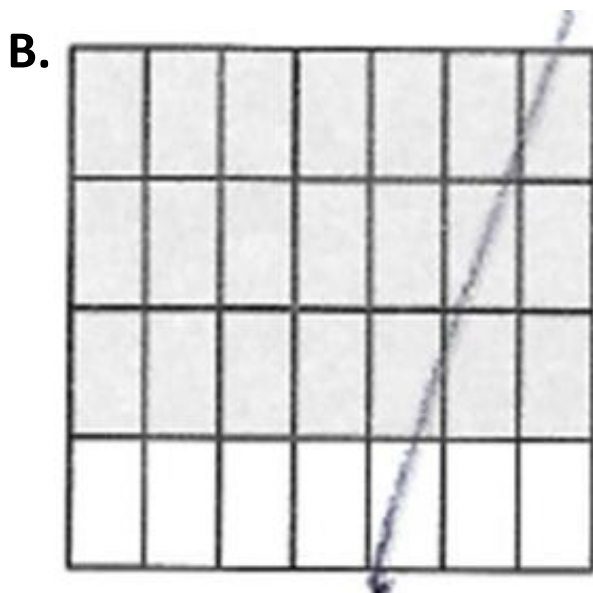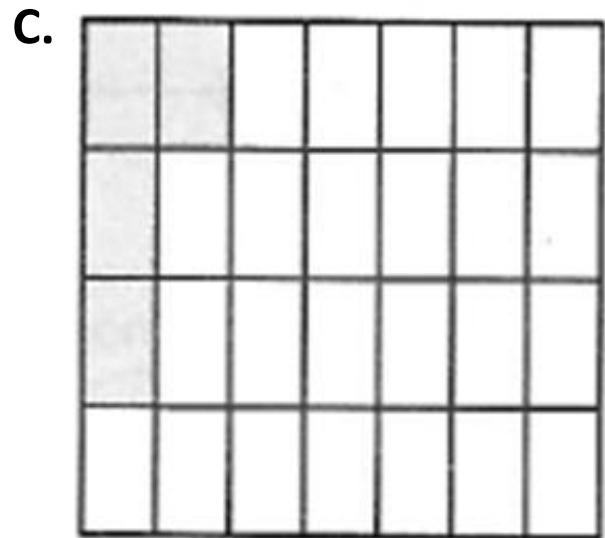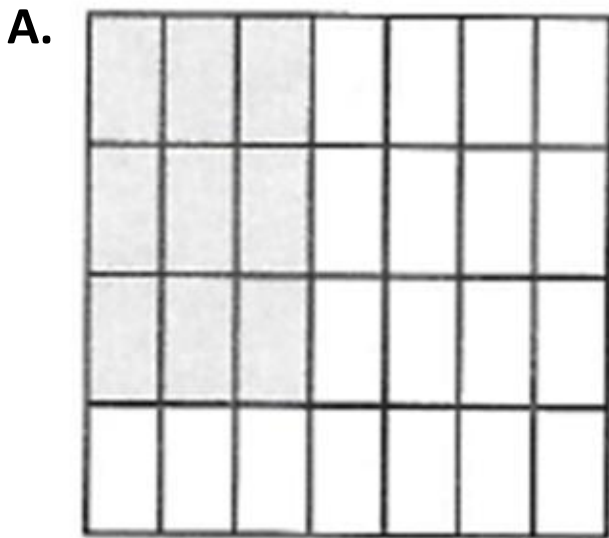
Problem 5

A candle manufacturer is putting candles into small boxes and then packing the boxes into a shipping box, as shown below. He has filled the bottom layer of the shipping box with 14 smaller boxes. He then stacked 2 more on top of the bottom layer. What is the total volume, in cubic units, of the shipping box?
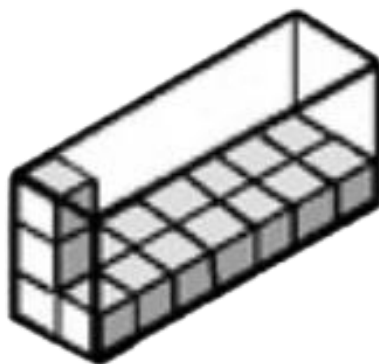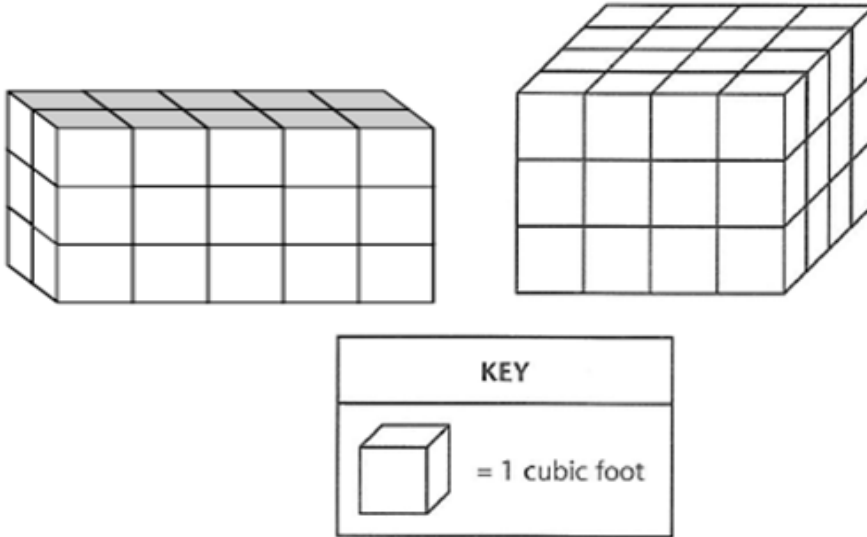
Volume: _____cubic units

Problem 6

Which type of quadrilateral can have exactly 1 pair of parallel sides?

A. rectangle

B. rhombus

C. square

D. trapezoid

Problem 7

The two right rectangular prisms below have different volumes.

KEY

= 1 cubic foot

What is the total volume in cubic feet, of the two prisms?

Answer _____ cubic feet

What is the difference, in volume, in cubic feet, of the two volumes?

Answer _____cubic feet

Problem 8

Chris is making a tabletop from some leftover tiles. His square tabletop measures $\frac{3}{4}$ inches wide. What is the area he can cover with these tiles?

$\frac{3}{4} in$
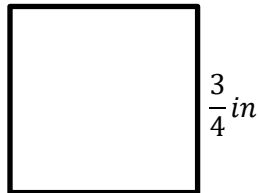
Area = _____ in²

Problem 9

Which type of quadrilaterals always has four right angles?

A. trapezoid and square

B. rectangle and rhombus

C. rhombus and parallelogram

D. square and rectangle

Problem 10

Abdul used unit cubes to build a right rectangular prism with a volume of 48 cubic units. The height of the prism was 4 unit cubes. Which figure could be the bottom layer of the prism?
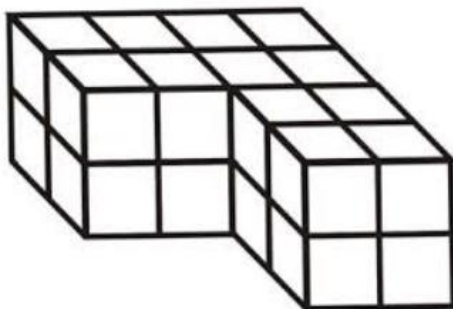
A.

B.

C.

D.
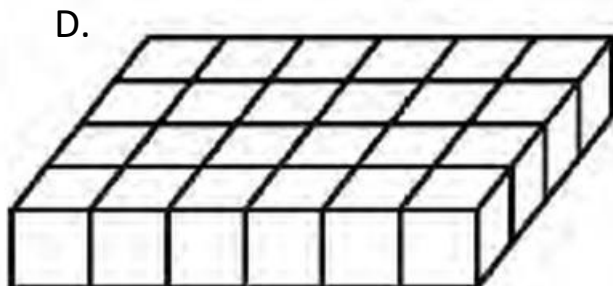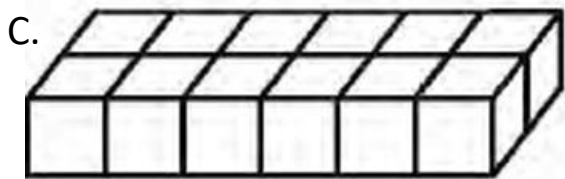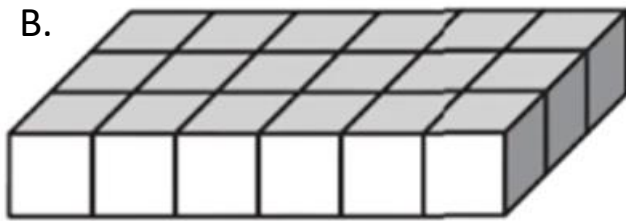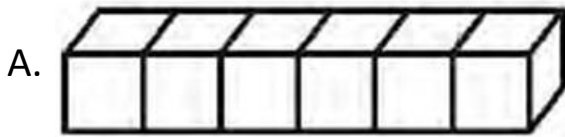
Problem 11

Which of these figures is not a quadrilateral?

       A. rectangle

       B. trapezoid

       C. octagon

       D. rhombus

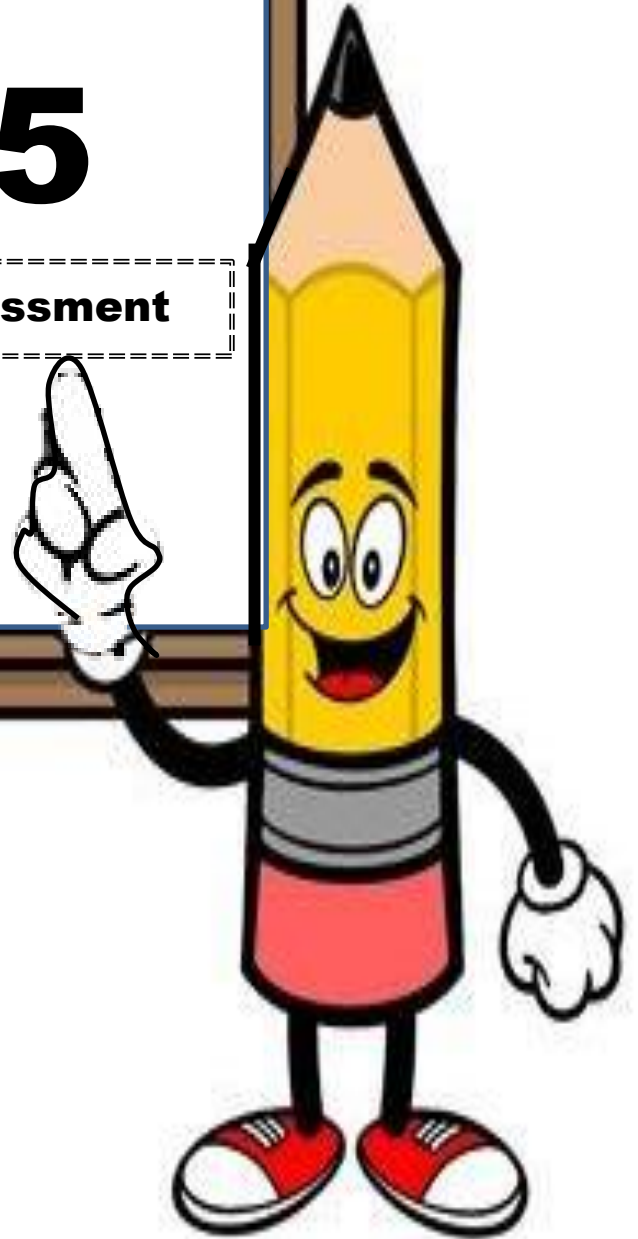# Problem 12

The following figure is made up of unit cubes.

How many unit cubes need to be added to the figure so that it will have a total volume of 32 cubic units?

Answer: _____cubes

Day # 5

Brighter Choice Charter School for Boys
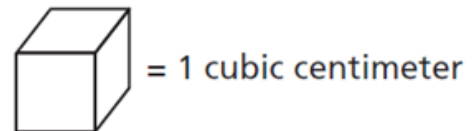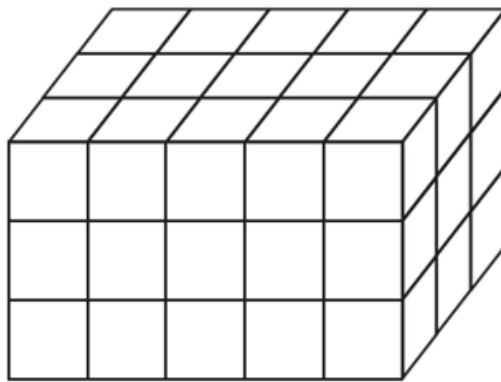
Mod 5 End of Mod SPA Assessment

Name:_____ Week 31 Day 5 Date:_____

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Module 5 End Module SPA Assessment

Directions: Make sure to show *all* your work and complete each part. Good luck! ☺

Part I: Multiple Choice

_____ 1. What is the volume, in cubic centimeters, of the figure below?
(5.MD.4)

= 1 cubic centimeter

A. 15

B. 24

C. 30

D. 45

_____ 2. Which type of quadrilateral always has four right angles? (5.G.3)

A. kite

B. rectangle

C. rhombus

D. trapezoid

_____ 3. Rashad is filling a toy box that are each a unit cube in size. He filled the bottom layer of the toy box with 15 wooden blocks. He then stacked two more wooden blocks on top of the bottom layer. The partially filled toy box is shown below. (5.MD.5a)
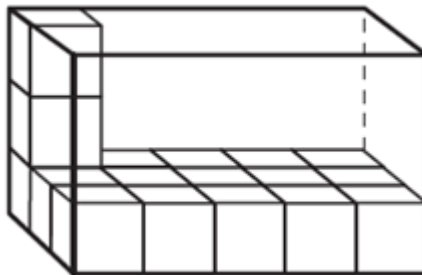
What is the total volume, in cubic units, of the toy box?

A. 15

B. 17

C. 30

D. 45

_____ 4. A swimming pool is shaped like a right rectangular prism. The pool is 36 feet long and 20 feet wide. What is the total amount of water, in cubic feet, needed to fill the pool to a depth of 4 feet? (5.MD.5b)

A. 800

B. 864

C. 2,880

D. 5,760

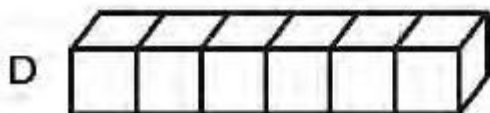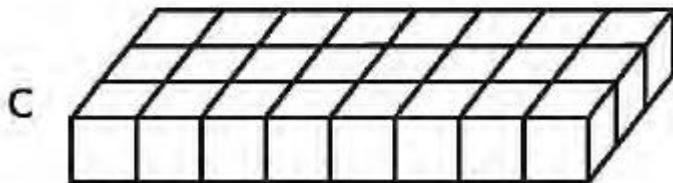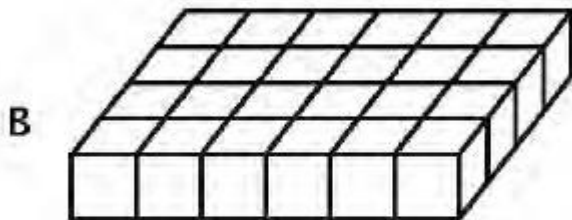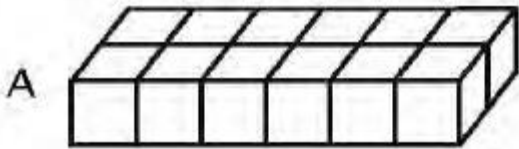_____ 5. Which type of quadrilateral can have exactly 1 pair of parallel sides? (5.G.3)

A. rectangle

B. rhombus

C. square

D. trapezoid

6. In his math class Clark used unit cubes to build a right rectangular prism with a volume of 24 cubic units. The height of the prism was two units. Which figure could be the bottom layer of the prism? (5.MD.3a)
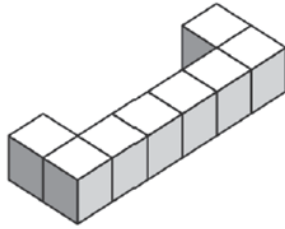
A

B

C

D

_____ 7. Which model shows one way to determine the area of a rectangle that is $\frac{7}{10}$ meter long and $\frac{3}{5}$ meter wide? (5.NF.4a)

A
1 m
1 m

B
1 m
1 m

C
1 m
1 m

D
1 m
1 m
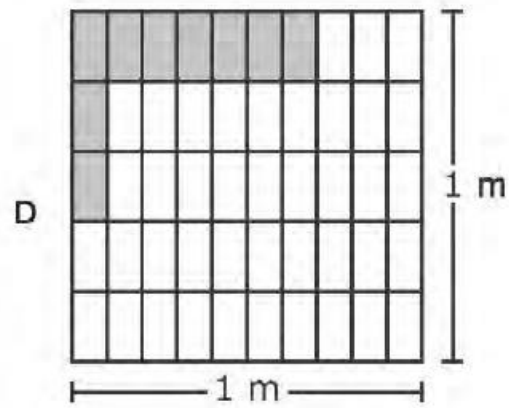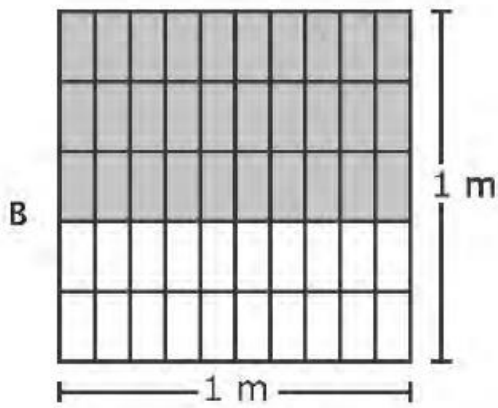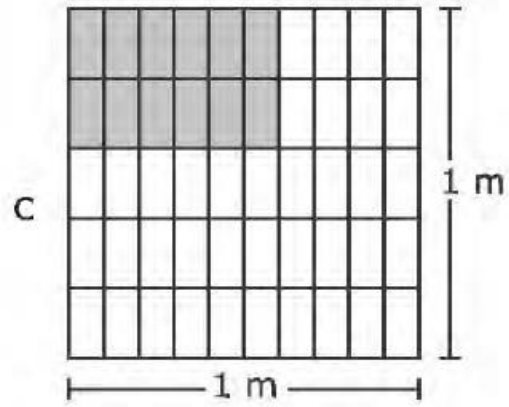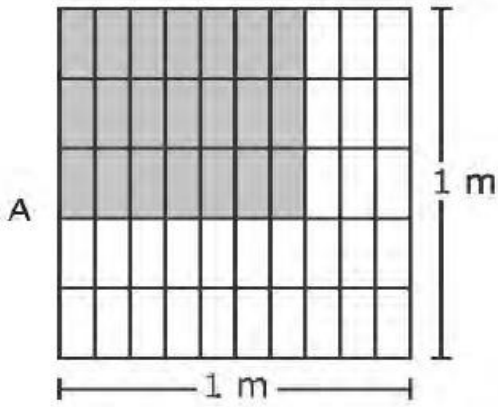
_____ 8. Which of these figures is a quadrilateral? (5.G.3)

A. triangle

B. trapezoid

C. octagon

D. pentagon

9. The figure below is made of unit cubes. (5.MD.4)

How many unit cubes need to be added to the figure so that it will have a total volume of 12 cubic units?
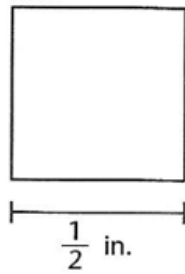
A. 1

B. 2

C. 4

D. 8

_____ 10. What is the area of the square below? (5.NF.4a)

$\frac{1}{2}$ in.

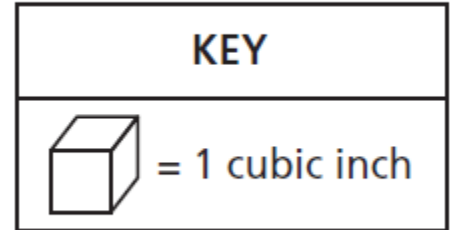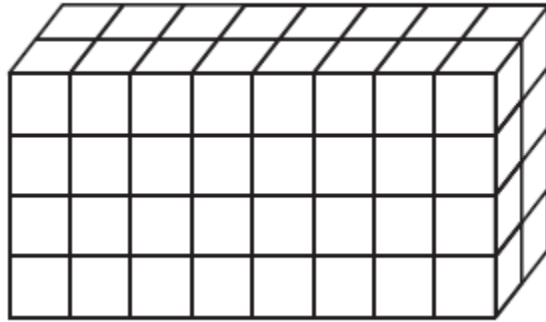A. $\frac{1}{8}$ square inch

B. $\frac{1}{2}$ square inch

C. $\frac{1}{4}$ square inch

D. 1 square inch

11. Jack used cubes to make the right rectangular prism below.
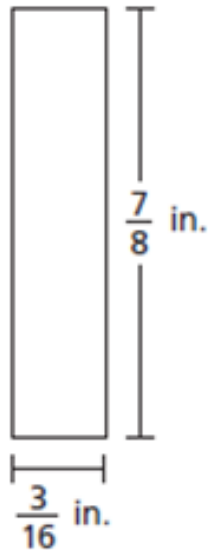(5.MD.5a)

KEY

= 1 cubic inch

He then made a smaller right rectangular prism using $\frac{1}{4}$ of the number of cubes. What was the volume, in cubic inches, of the smaller right rectangular prism?

A. 8

B. 13

C. 16

D. 64

12. The area of a rectangular prism is 240 in². If the height is 9 in, what is the volume? (5.MD.5b)

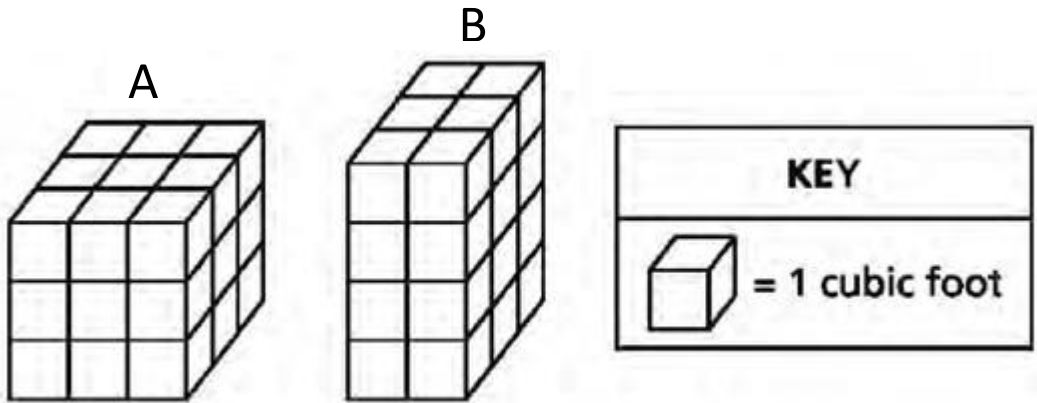The volume is _____ in³.

13. What is the area, in square inches, of a rectangle with the dimensions shown in the diagram below? (5.NF.4a)

$\frac{7}{8}$ in.

$\frac{3}{16}$ in.

The area is _____ in².

14. The two right rectangular prisms below have different
    volumes. (5.MD.5a)

Find the volume of each prism.

A = _____cubic feet   B = _____ cubic feet

What is the difference, in volume, in cubic feet, of the two
volumes?

Answer _____cubic feet