Name _____

Chapter 11 Review/Test

1. Fran drew a triangle with no congruent sides and 1 right angle. Which term accurately describes the triangle? Mark all that apply.

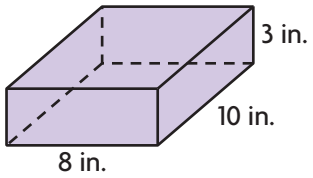
Ⓐ isosceles

Ⓑ scalene

Ⓒ acute

Ⓓ right

2. Jose stores his baseball cards in a box like the one shown.



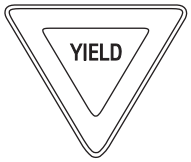
Use the numbers and symbols on the tiles to write a formula that represents the volume of the box. Symbols may be used more than once or not at all.

V	3	8	10	=	+	×	−	÷

_____

What is the volume of the box? _____ cubic inches

3. Mr. Delgado sees this sign while he is driving. For numbers 3a–3b, choose the values and term that correctly describes the shape Mr. Delgado saw.



3a. The figure has [3 / 4 / 5] sides and [0 / 2 / 3] vertices.

3b. All of the sides are congruent, so the figure is [not a polygon / a regular polygon / not a regular polygon].

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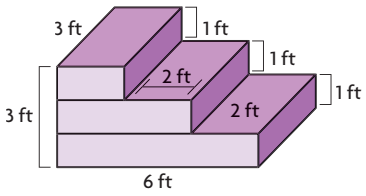
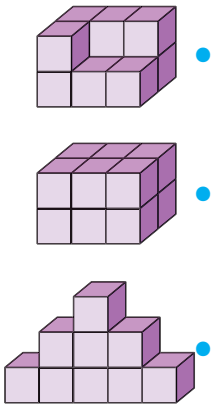
GO DIGITAL Assessment Options
Chapter Test

4. What is the volume of the composite figure?



_____ cubic feet

5. Match the figure with the number of unit cubes that would be needed to build each figure. Not every number of unit cubes will be used.



- 8 unit cubes
- 9 unit cubes
- 10 unit cubes
- 11 unit cubes
- 12 unit cubes
- 16 unit cubes

6. Chuck is making a poster about polyhedrons for his math class. He will draw figures and organize them in different sections of the poster.

Part A

Chuck wants to draw three-dimensional figures whose lateral faces are rectangles. He says he can draw prisms and pyramids. Do you agree? Explain your answer.

Part B

Chuck says that he can draw a cylinder on his polyhedron poster because it has a pair of bases that are congruent. Is Chuck correct? Explain your reasoning.

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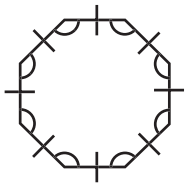
7. Javier drew the shape shown. For numbers 7a–7b, choose the values and term that correctly describe the shape Javier drew.

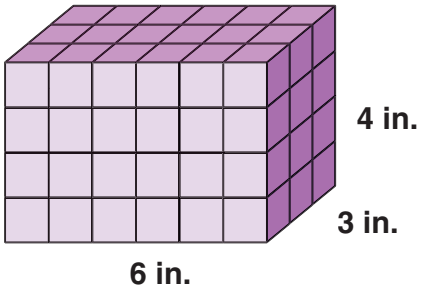


7a The figure has [6 / 7 / 8] sides and [6 / 8 / 12] angles.

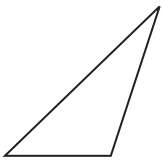
7b The figure is a [regular octagon / regular heptagon / regular quadrilateral].

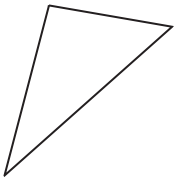
8. Victoria used 1-inch cubes to build the rectangular prism shown. Find the volume of the rectangular prism Victoria built.

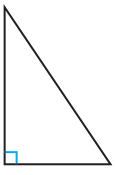
_____ cubic inches



9. Nathan drew a scalene, obtuse triangle. For 9a–9c, choose Yes or No to indicate whether the figure shown could be the triangle that Nathan drew.

9a.  ○ Yes ○ No

9b.  ○ Yes ○ No

9c.  ○ Yes ○ No

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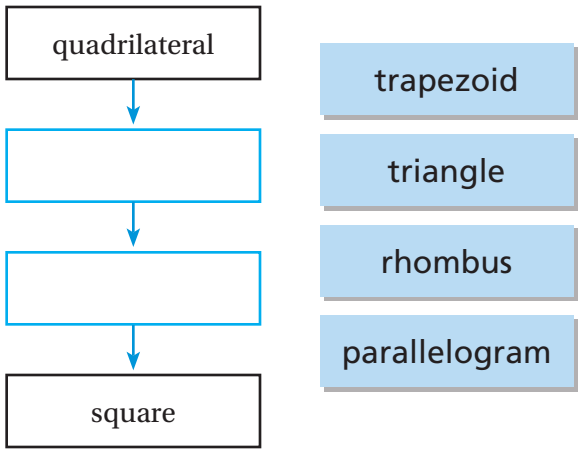
10. A shipping crate holds 20 shoeboxes. The dimensions of a shoebox are 6 inches by 4 inches by 12 inches. For numbers 10a–10b, select True or False for each statement.

10a.	Each shoebox has a volume of 22 cubic inches.	○ True	○ False
10b.	Each crate has a volume of about 440 cubic inches.	○ True	○ False
10c.	If the crate could hold 27 shoeboxes the volume of the crate would be about 7,776 cubic inches.	○ True	○ False

11. Mario is making a diagram that shows the relationship between different kinds of quadrilaterals. In the diagram, each quadrilateral on a lower level can also be described by the quadrilateral(s) above it on higher levels.

Part A

Complete the diagram by writing the name of one figure from the tiles in each box. Not every figure will be used.



Part B

Mario claims that a rhombus is *sometimes* a square, but a square is *always* a rhombus. Is he correct? Explain your answer.

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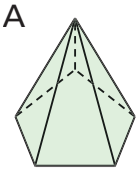
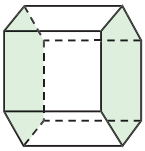
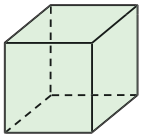
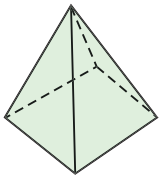
12. Write the letter in the box that correctly describes the three-dimensional figure.

A 

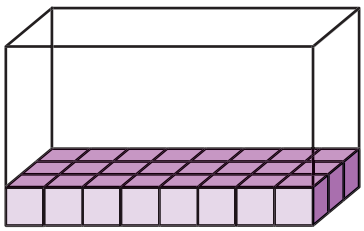
B 

C 

D 

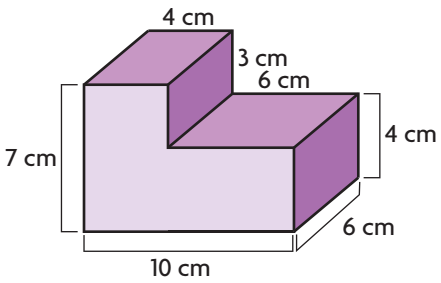
Prism	Pyramid

13. Mark packed 1-inch cubes into a box with a volume of 120 cubic inches. How many layers of 1-inch cubes did Mark pack?



_____ layers

14. A composite figure is shown. What is the volume of the composite figure?



Volume = _____ cubic centimeters

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15. For numbers 15a–15c, write the name of one quadrilateral from the tiles to complete a true statement. Use each quadrilateral once only.

15a. A ☐ is always a parallelogram.

15b. A ☐ is always a rhombus.

15c. A ☐ is never a parallelogram.

square

trapezoid

rectangle

16. Megan's aquarium has a volume of 4,320 cubic inches. Which could be the dimensions of the aquarium? Mark all that apply.

(A) 16 in. by 16 in. by 18 in.

(B) 14 in. by 18 in. by 20 in.

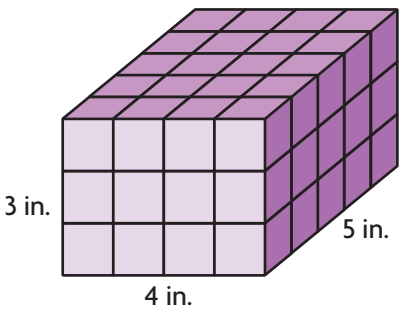
(C) 12 in. by 15 in. by 24 in.

(D) 8 in. by 20 in. by 27 in.

17. Ken keeps paper clips in a box that is the shape of a cube. Each side of the cube is 3 inches. What is the volume of the box?

_____ cubic inches

18. Monica used 1-inch cubes to make the rectangular prism shown. For numbers 18a–18d, write the value from the tiles that makes each statement true. Each value can be used more than once or not at all.



1	3	4	5	12	15	20	60

18a. Each cube has a volume of _____ cubic inch(es).

18b. Each layer of the prism is made up of _____ cubes.

18c. There are _____ layers of cubes.

18d. The volume of the prism is _____ cubic inches.

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