

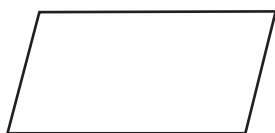
Name _____

Chapter Review

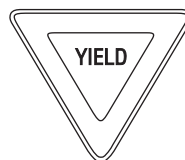
1. Fran drew a triangle with 3 sides of different lengths and 1 right angle. Which term accurately describes the triangle? Mark all that apply.

- ☐ (A) isosceles ☐ (C) acute
☐ (B) scalene ☐ (D) right

2. Jenvieve draws a quadrilateral with 2 pairs of opposite sides that are parallel. The figure has no right angles. Draw and name two figures that she could have drawn.



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 _____ sides and _____ vertices.

3

0

4

2

5

3

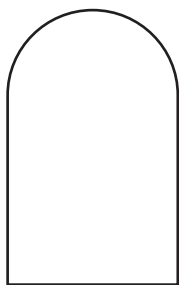
- 3b. All of the sides are the same length, so the figure is _____.

not a polygon

a regular polygon

not a regular
polygon

4. Is this figure a polygon? Explain.



5. Match each figure with its number of vertices. Not every number of vertices will be used.

trapezoid	•	• 2 vertices
quadrilateral	•	• 3 vertices
obtuse scalene triangle	•	• 4 vertices
rhombus	•	• 5 vertices

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

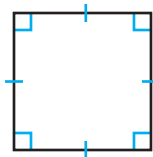
Chuck wants to draw three-dimensional figures whose lateral faces are rectangles. He says he can draw prisms and pyramids. Do you agree? Explain your answer.

Part B

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

Name _____

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 _____ sides and _____ angles.

2

3

4

1

2

4

7b. The figure is a _____.

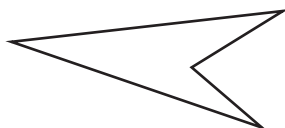
regular triangle

regular polyhedron

regular quadrilateral

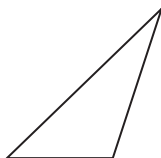
8. Which words describe this figure? Mark all that apply.

- ☐ (A) triangle
- ☐ (B) quadrilateral
- ☐ (C) trapezoid
- ☐ (D) polygon



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

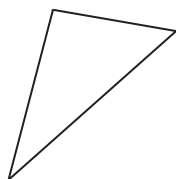
9a.



☐ Yes

☐ No

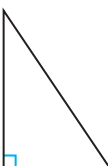
9b.



☐ Yes

☐ No

9c.

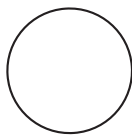


☐ Yes

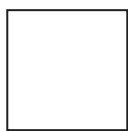
☐ No

10. Tell whether the figure is a *polygon*, a *polyhedron*, or *neither*.

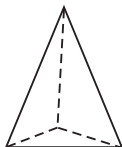
10a.



10b.



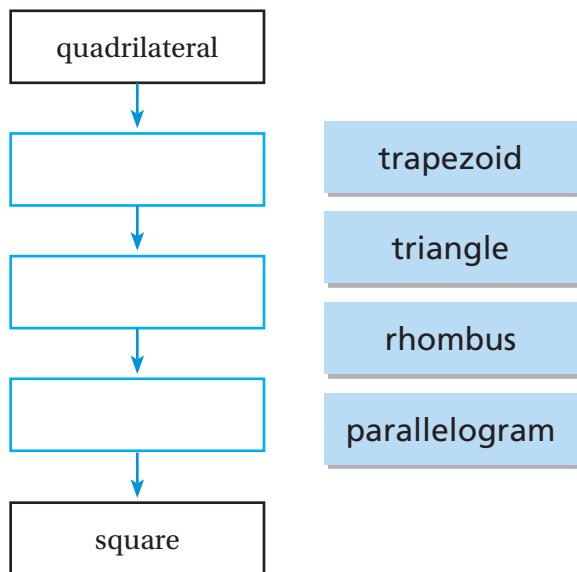
10c.



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.



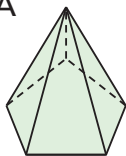
Part B

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

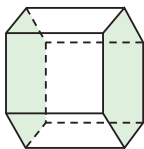
Name _____

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

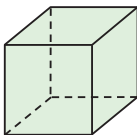
A



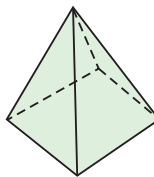
B



C



D



Prism

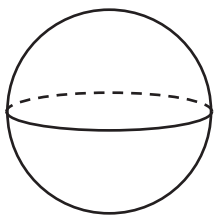
Pyramid

13. How can you classify the triangle? Give all possibilities. Explain.

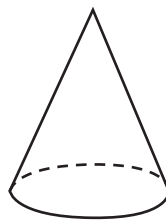
13a. a triangle with two sides that are 7.3 cm long

13b. a triangle with an acute angle

14. 14a. Classify the three-dimensional figures. Write *cone*, *cylinder*, or *sphere*.



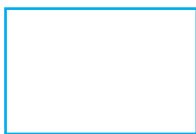




14b. Why are these figures *not* polyhedrons?

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.

square

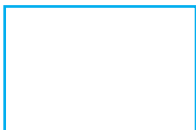
15b. A



is always a rhombus.

trapezoid

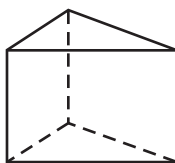
15c. A



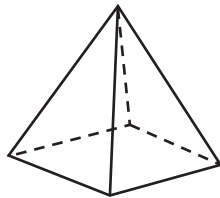
is sometimes a parallelogram.

rectangle

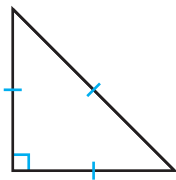
16. How many lateral faces does this polyhedron have? What is the shape of the lateral faces?



17. How many bases does this polyhedron have? What is the shape of the base?



18. Select True or False for each statement about the figure.



- 18a. The figure has no right angles. ☐ True ☐ False
- 18b. The figure has two acute angles. ☐ True ☐ False
- 18c. The figure has two sides of equal length. ☐ True ☐ False
- 18d. The figure is an equilateral triangle. ☐ True ☐ False