Unit 1 Study Guide
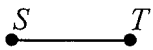
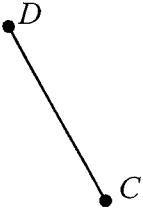Name _____ # ____   Date _____

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1. I am a quadrangle.
   I have equal opposite angles but they are not right angles.
   My opposite sides are parallel and equal in length.

   a. What am I?
   b. Draw a picture of me.

2. Draw a line XY parallel to the given line segment ST.

   S _____ T

3. Draw line segment EF which intersects the given line segment CD.

   D

   C

Fill in the ovals below to show your answers. There may be more than one correct answer, so you may need to fill in more than one oval.

4. 0 $\overleftrightarrow{CE}$

    0 $\overline{CE}$

    0 $\overleftrightarrow{EC}$

    C   E

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Fill in the ovals below to show your answers. There may be more than one correct answer, so you may need to fill in more than one oval.

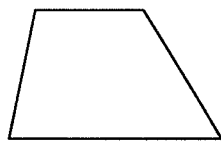5. O $\overrightarrow{CE}$

   O $\overline{CE}$

   O $\overrightarrow{EC}$

6.
   O trapezoid
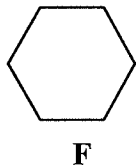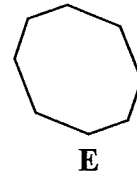   O quadrilateral
   O rectangle

7.
   O parallelogram
   O pentagon
   O triangle
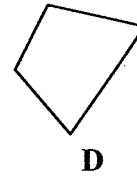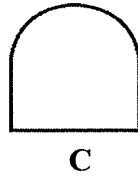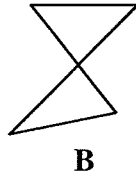
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8.

A   B   C   D   E

F

a. Which of the above shapes are not polygons?

b. Choose one of the shapes that is not a polygon. Tell why it is not a polygon.
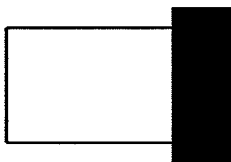
9. Solve.

a. $4 + 7 =$ _____

b. $5 + 5 =$ _____

c. _____ $= 10 - 9$

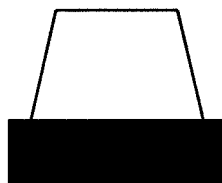d. _____ $= 16 - 9$

10. Part of each polygon below is hidden. One of the 3 polygons is a **rectangle**, another is a regular **pentagon**, and another is a **trapezoid**. Write the correct name of each polygon.
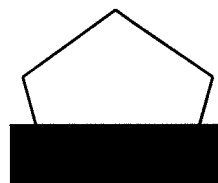
a.   b.   c.
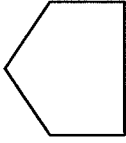

11. Draw two perpendicular line segments

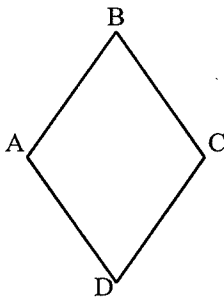12. Draw a concave polygon.

13. Draw 5 concentric circles.

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14. Draw a polygon that is congruent to the one shown here.

15. Describe the figure. Be as specific as you can.

16. Which of the following is an example of a ray?
    telephone wire between two telephone poles, a laser beam, two opposite edges of a window,
    ruler

17. Draw an example of a hexagon.

18. Solve.
    a. $4 + 7 =$ _____
    b. $5 + 5 =$ _____
    c. _____ $= 10 - 9$
    d. _____ $= 16 - 9$