

Unit 1 Study Guide

Name **ANSWER KEY** # _____ Date _____

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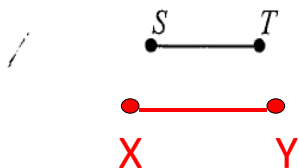
- I am a quadrangle.
I have equal opposite angles but they are not right angles.
My opposite sides are parallel and equal in length.

a. What am I? **rhombus**

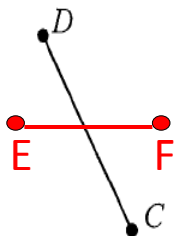
b. Draw a picture of me.



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



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



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. \overleftrightarrow{CE}

\overline{CE}



\overleftrightarrow{EC}

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

5. \overrightarrow{CE}

\overline{CE}

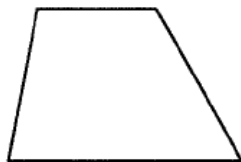


\overrightarrow{EC}

6. trapezoid

quadrilateral

rectangle



7. parallelogram

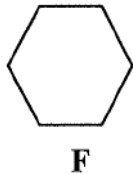
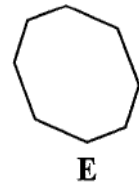
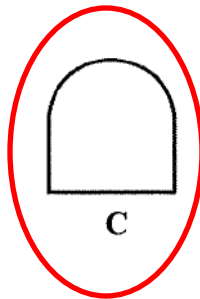
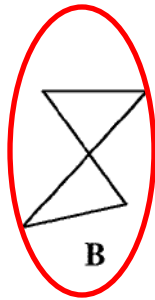
pentagon

triangle



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8.



a. Which of the above shapes are not polygons? **B & C**

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

B is not a polygon because the line segments intersect & C is not a polygon because it has curved lines

9. Solve.

a. $4 + 7 = \underline{11}$

b. $5 + 5 = \underline{10}$

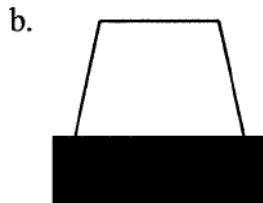
c. $\underline{1} = 10 - 9$

d. $\underline{7} = 16 - 9$

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.



rectangle

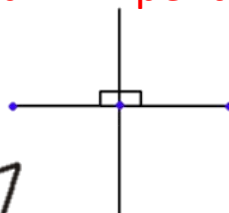


trapezoid



pentagon

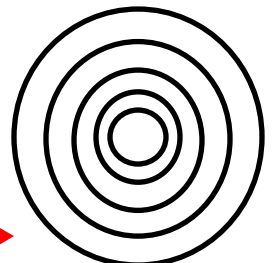
11. Draw two perpendicular line segments



12. Draw a concave polygon.

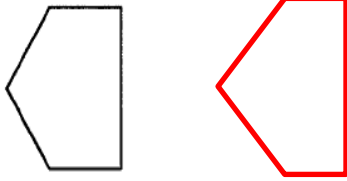


13. Draw 5 concentric circles.

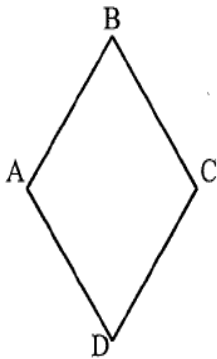


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14. Draw a polygon that is congruent to the one shown here.



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



The figure is a:

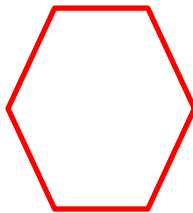
- quadrilateral
- rhombus
- 4 sides, 4 angles, 4 vertices
- opposite sides are parallel
- parallelogram
- polygon

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

a laser beam

17. Draw an example of a hexagon.



18. Solve.

a. $4 + 7 = \underline{11}$

b. $5 + 5 = \underline{10}$

c. $\underline{1} = 10 - 9$

d. $\underline{7} = 16 - 9$