Unit 1 Study Guide

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? **rhombus**
   b. Draw a picture of me. 🟠

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

   S
   /  
   X  Y
   ———
   T

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

   D
   /  
   E  F
   ———
   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. $\overrightarrow{CE}$
   $0 \overrightarrow{CE}$
   $\overrightarrow{EC}$
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. \( \overrightarrow{CE} \)

6. trapezoid

7. parallelogram
8. A rectangle, trapezoid, pentagon, B & C

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

   a. $4 + 7 = \underline{11}$
   b. $5 + 5 = \underline{10}$
   c. $\frac{1}{7} = 10 - 9$
   d. $\frac{7}{1} = 16 - 9$

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. trapezoid  
   b. C. pentagon

11. Draw two perpendicular line segments

12. Draw a concave polygon.

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

The figures is a:
• quadrilateral
• rhombus
• 4 sides, 4 angles, 4 vertices
• opposite sides are parallel
• parallelogram
• polygon

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
   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. \(\underline{7} = 16 - 9\)