

Everyday Mathematics

Grade 4

Unit 1

Name: _____

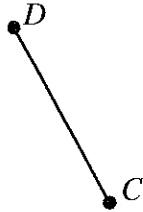
1. I am a quadrangle.
I have equal opposite angles but they are not right angles.
My opposite sides are parallel and equal in length.

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

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



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

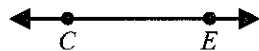


Fill in the ovals below to show your answers. There may be more than one correct answer, so you may need to fill in more than one oval.

4. \overleftrightarrow{CE}

\overline{CE}

\overleftrightarrow{EC}



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}

\overline{CE}



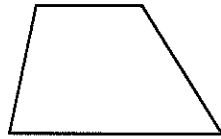
\overrightarrow{EC}

6.

trapezoid

quadrilateral

rectangle

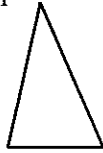


7.

parallelogram

pentagon

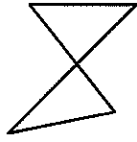
triangle



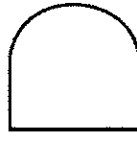
8.



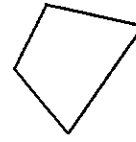
A



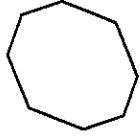
B



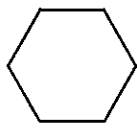
C



D



E



F

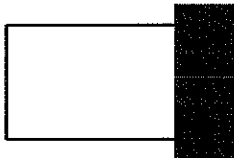
- Which of the above shapes are not polygons?
 - Choose one of the shapes that is not a polygon. Tell why it is not a polygon.
-

9. Solve.

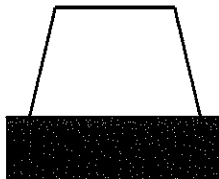
- $4 + 7 = \underline{\hspace{2cm}}$
 - $5 + 5 = \underline{\hspace{2cm}}$
 - $\underline{\hspace{2cm}} = 10 - 9$
 - $\underline{\hspace{2cm}} = 16 - 9$
-

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.

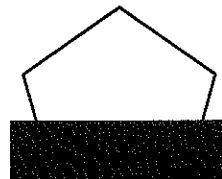
a.



b.



c.

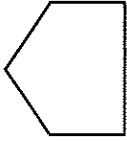


11. Draw two perpendicular line segments

12. Draw a concave polygon.

13. Draw 5 concentric circles.

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

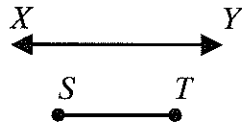


- a. parallelogram
 b. Sample answer:



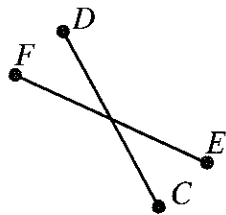
[1] _____

Sample answer:



[2] _____

Sample answer:



[3] _____

\overrightarrow{CE}

\overline{CE}

\overleftarrow{EC}

[4] _____

\overrightarrow{CE}

\overline{CE}

\overrightarrow{EC}

[5] _____

- trapezoid
- quadrilateral
- rectangle

[6] _____

- parallelogram
- pentagon
- triangle

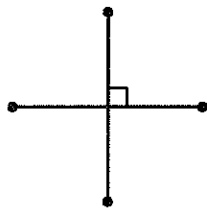
[7] _____

- a. B, C
- [8] b. Sample answer: B has two sides that cross each other.

- a. 11
- b. 10
- c. 1
- [9] d. 7

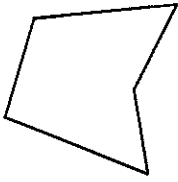
- a. rectangle
- b. trapezoid
- [10] c. pentagon

Sample answer:

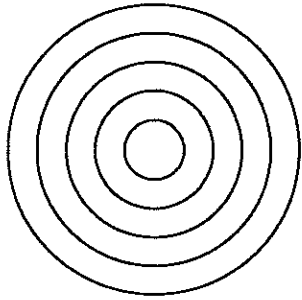


[11] _____

Sample answer:



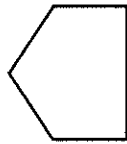
[12]



[13]



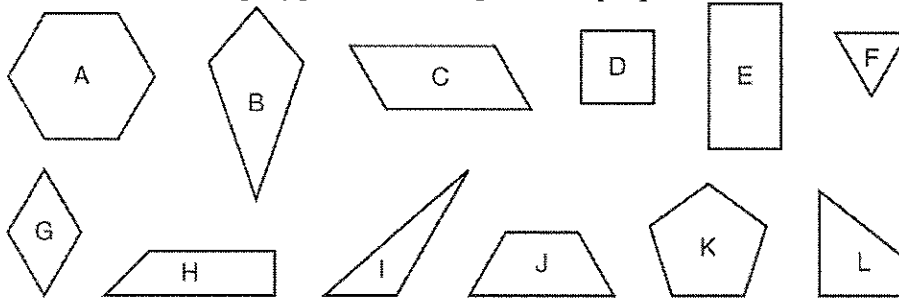
Sample answer:



[14]



1. Ben's teacher Ms. Lopez asked him to sort the polygons below into 2 groups. Ms. Lopez said Ben must sort the polygons according to their properties.



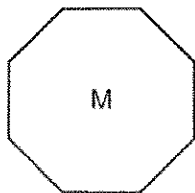
a. So far, Ben has put some of the polygons into two groups. Write the letters of at least 2 more polygons that could go into each group.

Group 1	Group 2
<i>A K</i>	<i>D H</i>

All of the polygons in Group 1 have this property or properties in common:

All of the polygons in Group 2 have this property or properties in common:

b. Ms. Lopez gave Ben one more polygon. Does Polygon M belong in one of the groups above? Explain why or why not.



Sample answers: a. Place D and F in Group 1 and E and L in Groups 2. All the polygons in Group 1 are regular polygons. All the polygons in Group 2 have at least one right angle.

[1] b. Polygon belongs in Group 1 because it is a regular polygon.
