Worksheet 1  Classifying Polygons

Identify the shape.

1. I have 3 sides and 3 corners. ____________
2. I have 6 sides and 6 corners. ____________

Each figure is made from two shapes.
Name the shapes.

3. This figure is made from a ____________
   and a ____________.

4. This figure is made from a ____________
   and a ____________.

Mark all the angles in the shape.

5. 
Tell whether each plane figure is closed or open.

Example

\[
\begin{array}{c}
\text{Closed plane figures} \\
\text{start and end at the same point.}
\end{array}
\]

\[
\text{closed}
\]

6. 

7. 

8. 

9. 

10. 

11. 

Closed plane figures start and end at the same point.
Look at the figures. Identify all the polygons.

12. A B C D E F

A **polygon** is a closed plane figure formed by three or more line segments.

Draw lines to match the name and shape.

13. Triangle • •

Square • •

Pentagon • •

Hexagon • •

Octagon • •
Label the parts of the shape with *angle*, *side*, or *vertex*.

Example

- vertex
- angle
- side

14.

Complete the table.

15.

<table>
<thead>
<tr>
<th>Polygon</th>
<th>Number of Sides</th>
<th>Number of Angles</th>
<th>Number of Vertices</th>
</tr>
</thead>
<tbody>
<tr>
<td>Octagon</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hexagon</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pentagon</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rectangle</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Triangle</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Look at the figures. Identify all the quadrilaterals.

16.

A B C D E F

Quadrilaterals are polygons that have four sides and four angles.

Draw lines to match the shape and the name.

17. Square

   ● ●

   ● ●

Rectangle

   ● ●

Rhombus

   ● ●

Trapezoid

   ● ●

Parallelogram
Which is a square?

18.

A

B

C

Explain:

__________________________

__________________________

Which is a rectangle?

19.

A

B

C

Explain:

__________________________

__________________________
Check each statement that is a property of a square.

20. □ A square has 3 sides.
□ Only the opposite sides of a square are equal.
□ All angles of a square are right angles.
□ All sides of a square are equal.
□ Opposite sides of a square are parallel.

Check each statement that is a property of a rectangle.

21. □ A rectangle has 3 sides.
□ The opposite sides of a rectangle are equal.
□ All angles of a rectangle are right angles.
□ All sides of a rectangle are equal.
□ Opposite sides of a rectangle are parallel.
Which is a parallelogram?

22.

A  B  C

Explain:

Which is a rhombus?

23.

A  B  C

Explain:
Check each statement that is a property of a parallelogram.

24. ☐ A parallelogram has 4 sides.
    ☐ The opposite sides of a parallelogram are equal.
    ☐ All angles of a parallelogram are equal.
    ☐ All sides of a parallelogram are equal.
    ☐ The opposite sides of a parallelogram are parallel.

Check each statement that is a property of a rhombus.

25. ☐ A rhombus has 5 sides.
    ☐ Only the opposite sides of a rhombus are equal.
    ☐ All angles of a rhombus are equal.
    ☐ All sides of a rhombus are equal.
    ☐ The opposite sides of a rhombus are parallel.
    ☐ A rhombus is a parallelogram.
    ☐ A rhombus is always a square.
Which is a trapezoid?

26.  

A  

B  

C  

Explain:

________________________________________________________________________

________________________________________________________________________

Check each statement that is a property of a trapezoid.

27.  

☐ A trapezoid has 4 sides.  

☐ The opposite sides of a trapezoid are equal.  

☐ All angles of a trapezoid are equal.  

☐ All sides of a trapezoid are equal.  

☐ The opposite sides of a trapezoid are parallel.  

☐ A trapezoid is a parallelogram.  

☐ Only one pair of opposite sides of a trapezoid is parallel.
Worksheet 2  Congruent Figures
Circle the sets that show a slide.

Example

To slide a figure is to move it along in any direction.

1.  

   A
   B
   C

2.  

   A
   B
   C

3.  

   A
   B
   C
Put a check (✓) in the box that shows a flip.

Example

4.  

5.  

6.  

To flip a figure is to turn it front to back over a line.
Put a check (✓) in the box that shows a turn.

Example

To turn a figure is to rotate it about a point.

7.

8.

9.
Decide whether the shapes are congruent. Write yes or no.

Example

Two figures that have the same shape and size are congruent.

yes

10.

11.

12.

13.
Worksheet 3  Symmetry

Decide whether the line is a line of symmetry. Write yes or no.

Example

![Line of symmetry]

A symmetric figure has a line of symmetry. This line divides the figure into two congruent halves.

yes

1.

![Figure A]

2.

![Figure B]
3.

4.

Circle the symmetric figures.

5. 

$\qquad$ $\qquad$ $\qquad$ 

$\quad$ $\quad$ $\quad$ 

$\quad$ $\quad$ $\quad$