Chapter 7 Angles and Lines

Worksheet 1 Understanding and Identifying Angles

1. __________________________________________________________________________

2. __________________________________________________________________________

3. __________________________________________________________________________

4. __________________________________________________________________________

Identify each figure as a point, line, or line segment.

Example

A line segment is part of a line. It has two endpoints, A and B.

Line segment AB or BA
Do the line segments share a common endpoint? Write yes or no. If there is a common endpoint, circle it.
Mark and color an angle in each drawing.

Example

13. 

14. 

15. 

16. 

Draw another line segment to form an angle. Circle the common endpoint.

Example

17. 

18.
Draw pairs of line segments to form two different angles.

19.

20.

Mark and color two angles in each figure.

Example

21. 22.
Draw a figure using 3 three line segments. Mark and color 2 angles in the figure.

23. 

For each pair of angles, shade the greater angle.

Example

24. 

25.
Mark all the angles inside each plane shape. Then write the number of angles.

**Example**

Number of angles: 3

26.  

Number of angles: __________

27.  

Number of angles: __________

Shade the angles in each letter.

**Example**

28.  

29.  

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Mark two angles in each object.

30.

31.

32.

33.
Write the number of angles and number of sides of each figure.

Example

![Triangle]

Number of sides: 3
Number of angles: 3

34.

![Parallelogram]

Number of sides: 
Number of angles: 

35.

![Pentagon]

Number of sides: 
Number of angles: 

36.

![Hexagon]

Number of sides: 
Number of angles: 

37.

![Square]

Number of sides: 
Number of angles: 

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Worksheet 2  Right Angles

Look at these angles. Use a piece of folded paper to help you answer the question.

1. Which angles are less than right angles? ________

2. Which angles are greater than right angles? ________

3. Which angle is the same size as a right angle? ________
Mark all the right angles in each figure. Use a piece of folded paper to help you.

Example

The corner of a folded paper is a right angle.
There are 4 right angles in a square.

4. 
5. 
6. 
7.
Circle the triangles that have right angles. Then mark all the right angles.

Use a piece of folded paper to help you.

8.

Circle the triangles that have right angles. Then mark all the right angles.

Use a piece of folded paper to help you.

9.
Worksheet 3  Perpendicular Lines

Circle the figures that have two lines that meet at right angles.

Use a piece of folded paper to help you.

1. 

   A
   
   B
   
   C
   
   D

Are the lines perpendicular?
Write yes or no.

2. 

Perpendicular lines are lines that meet at right angles.
Identify and name a pair of perpendicular line segments on each object.

4. A B
   C D

5. A E F

6. A B
   C D

7. A B
   C D
Worksheet 4  Parallel Lines

Circle the pairs of lines that will not meet no matter how long you draw them.

1. 

A

B

C

D

Are the pairs of lines parallel? Write yes or no.

2. Parallel lines are lines that will not meet no matter how long you draw them. The distance between them is always the same.
Identify and name a pair of parallel line segments on each object.

4. \[ \text{Diagram of a door with points } A, B, C, D \]
   - Parallel line segments: \( AB \) and \( CD \)

5. \[ \text{Diagram of a window with points } A, B, C, D, E, F, G, H, I, J \]
   - Parallel line segments: \( BC \) and \( DE \)

6. \[ \text{Diagram of a tissue box with points } A, B, C, E, F, G \]
   - Parallel line segments: \( AB \) and \( FG \)

7. \[ \text{Diagram of a book with points } A, B, C, D \]
   - Parallel line segments: \( AB \) and \( CD \)