

Name: _____

Date: _____

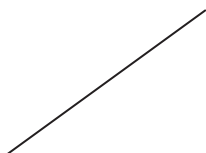
CHAPTER
17

Angles and Lines

Worksheet 1 Understanding and Identifying Angles

Identify each figure as a *part of a line* or *curve*.

1.



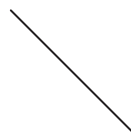
2.



3.

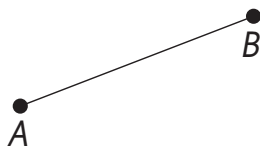


4.



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

Example



Line segment AB or BA

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

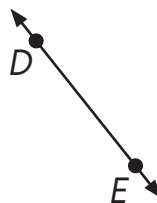
Name: _____

Date: _____

5.



6.



7.



8.

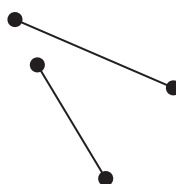


**Do the line segments share a common endpoint?
Write *yes* or *no*. If there is a common endpoint, circle it.**

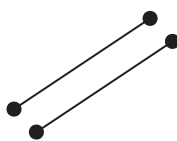
9.



10.



11.



12.

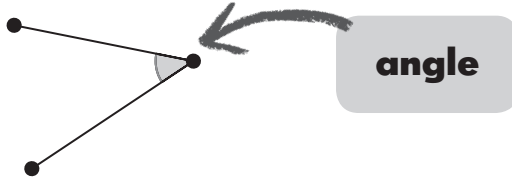


Name: _____

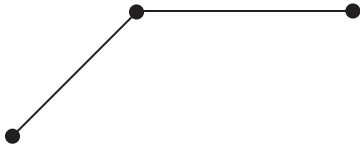
Date: _____

Mark and color an angle in each drawing.

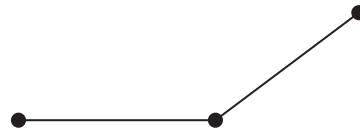
Example



13.



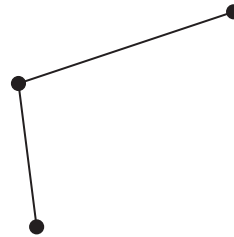
14.



15.

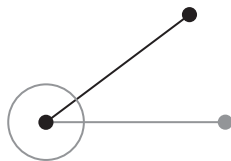


16.

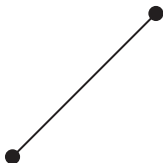


**Draw another line segment to form an angle.
Circle the common endpoint.**

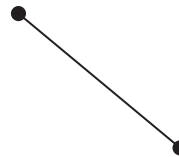
Example



17.



18.



Name: _____

Date: _____

Draw pairs of line segments to form two different angles.

19.

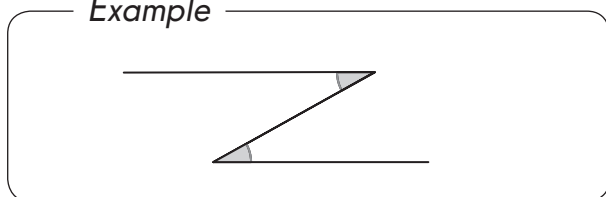


20.

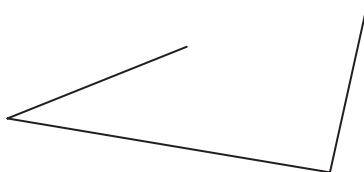


Mark and color two angles in each figure.

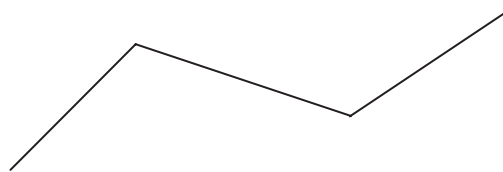
Example



21.



22.

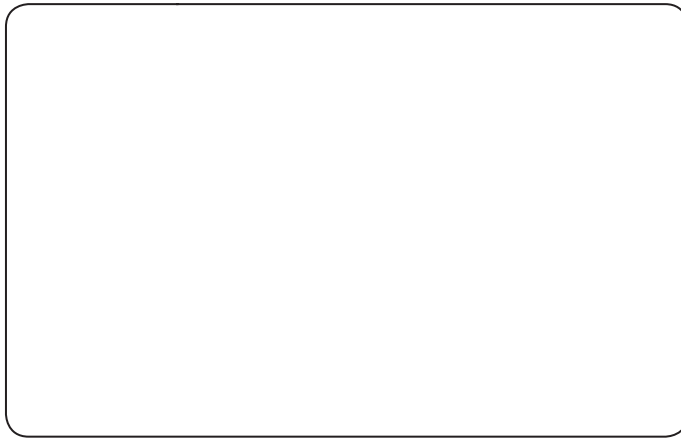


Name: _____

Date: _____

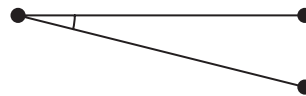
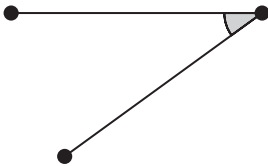
**Draw a figure using 3 three line segments.
Mark and color 2 angles in the figure.**

23.

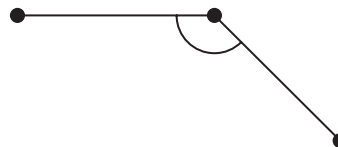
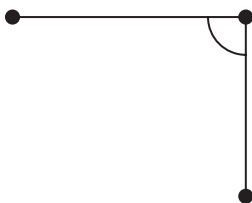


For each pair of angles, shade the greater angle.

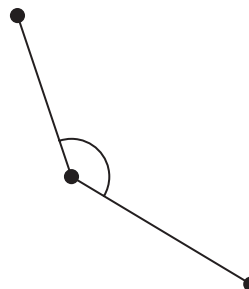
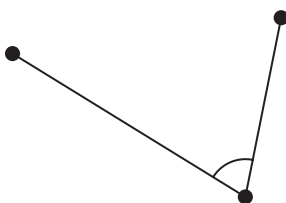
Example



24.



25.

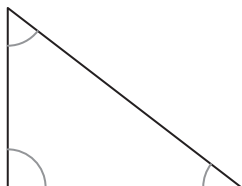


Name: _____

Date: _____

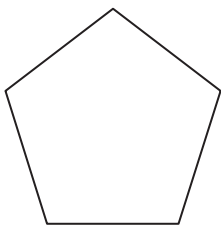
**Mark all the angles inside each plane shape.
Then write the number of angles.**

Example



Number of angles: 3

26.



Number of angles: _____

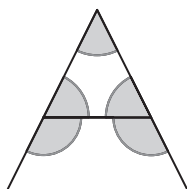
27.



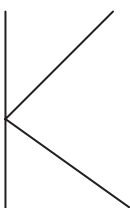
Number of angles: _____

Shade the angles in each letter.

Example



28.



29.



Name: _____

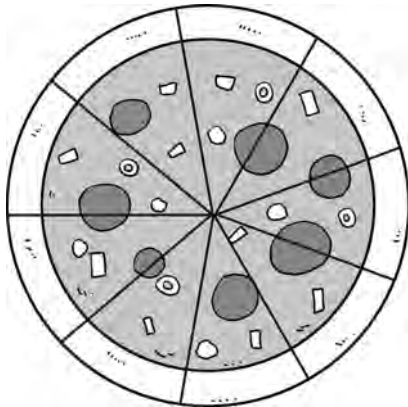
Date: _____

Mark two angles in each object.

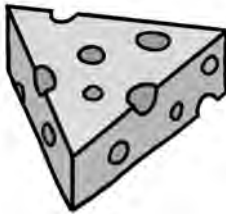
30.



31.



32.



33.

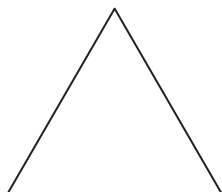


Name: _____

Date: _____

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

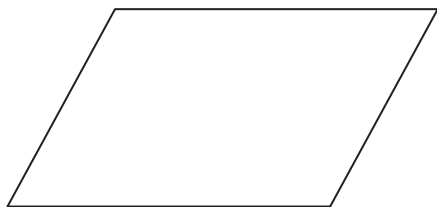
Example



Number of sides: 3

Number of angles: 3

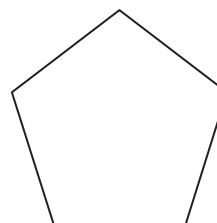
34.



Number of sides: _____

Number of angles: _____

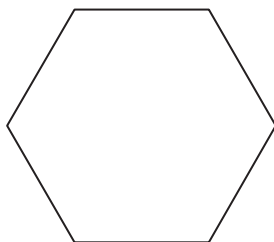
35.



Number of sides: _____

Number of angles: _____

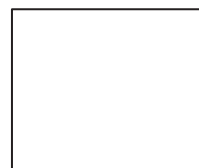
36.



Number of sides: _____

Number of angles: _____

37.



Number of sides: _____

Number of angles: _____

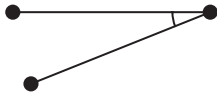
Name: _____

Date: _____

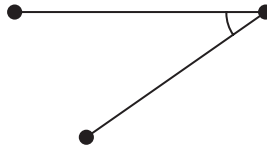
Worksheet 2 Right Angles

Look at these angles.

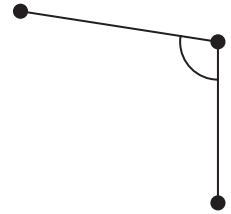
Use a piece of folded paper  to help you answer the question.



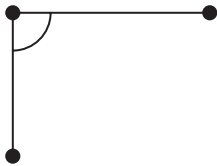
(a)



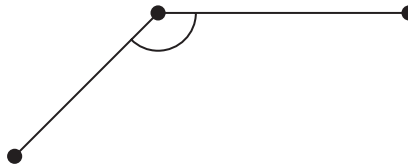
(b)



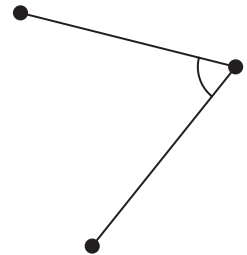
(c)



(d)



(e)



(f)

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? _____

Name: _____

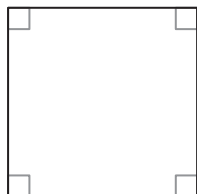
Date: _____

Mark all the right angles in each figure. Use a piece of folded paper



to help you.

Example



The corner of a folded paper

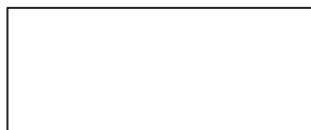


is a **right angle**.

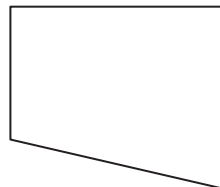
There are 4 right angles in a square.



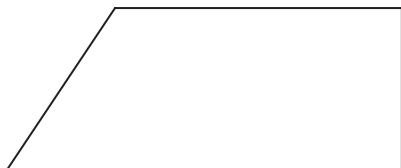
4.



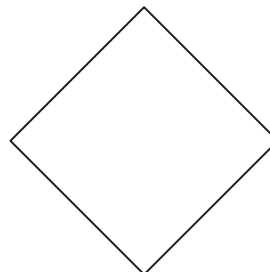
5.



6.



7.



Name: _____

Date: _____

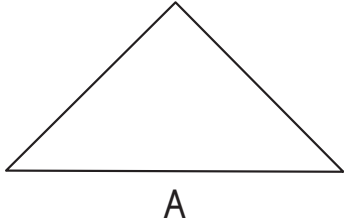
**Circle the triangles that have right angles.
Then mark all the right angles.**

Use a piece of folded paper

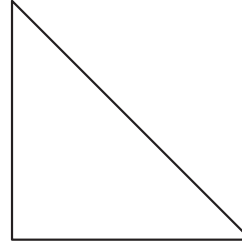


to help you.

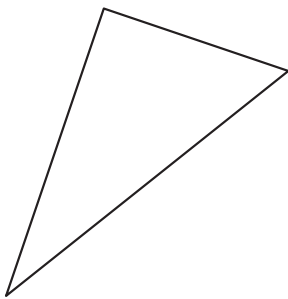
8.



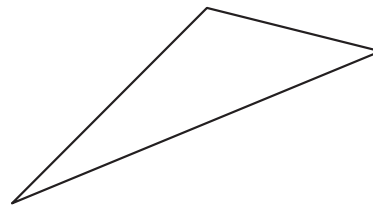
A



B



C



D

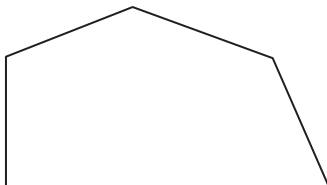
Mark all the right angles in each figure.

Use a piece of folded paper



to help you.

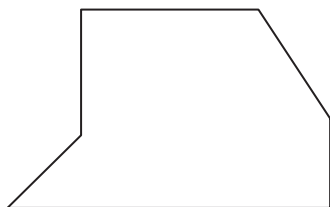
9.



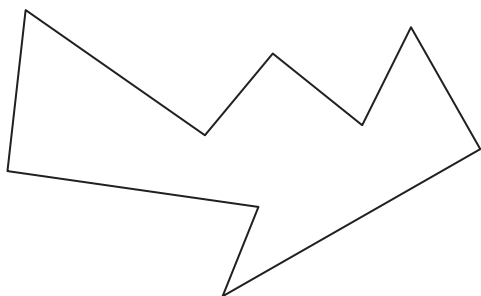
Name: _____

Date: _____

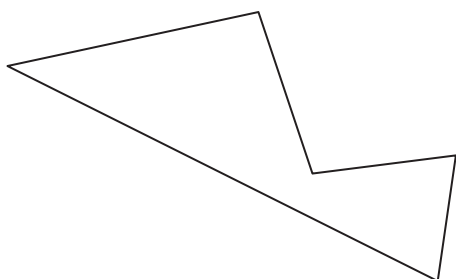
10.



11.



12.



Name: _____

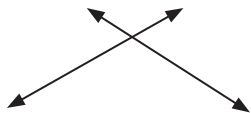
Date: _____

Worksheet 3 Perpendicular Lines

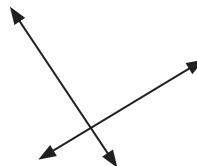
Circle the figures that have two lines that meet at right angles.

Use a piece of folded paper  to help you.

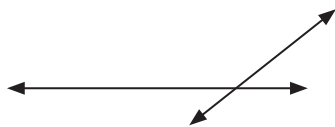
1.



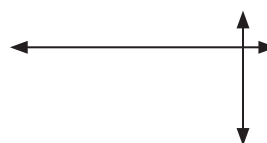
A



B



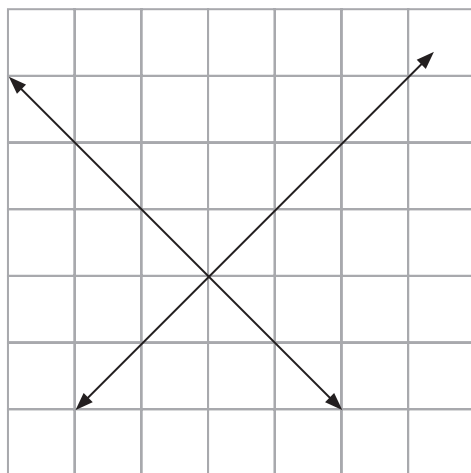
C



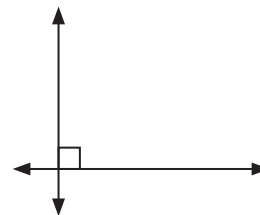
D

Are the lines perpendicular?
Write *yes* or *no*.

2.



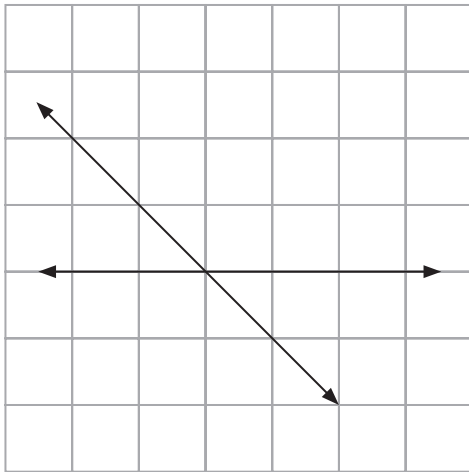
Perpendicular lines are lines that meet at right angles.



Name: _____

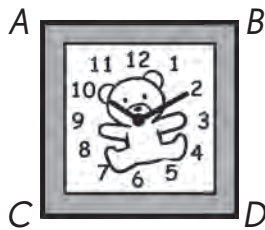
Date: _____

3.

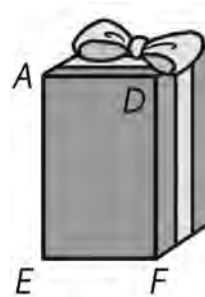


Identify and name a pair of perpendicular line segments on each object.

4.



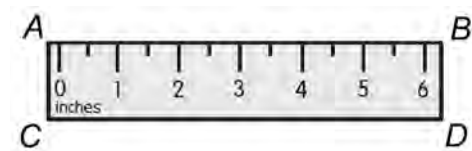
5.



6.



7.



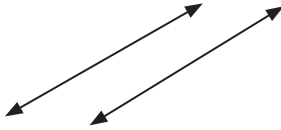
Name: _____

Date: _____

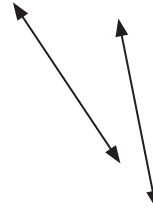
Worksheet 4 Parallel Lines

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

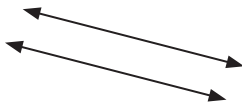
1.



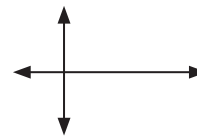
A



B



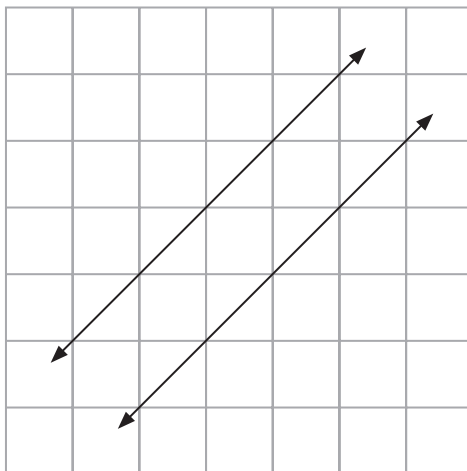
C



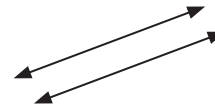
D

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

2.



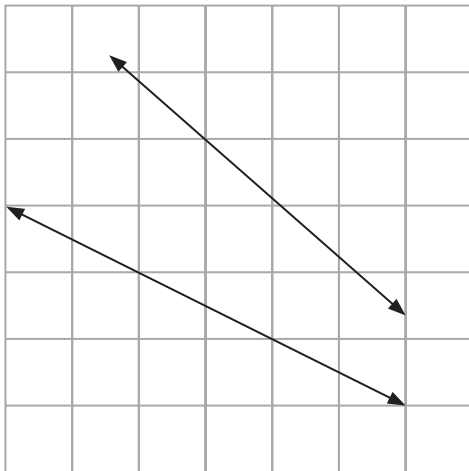
Parallel lines are lines that will not meet no matter how long you draw them. The distance between them is always the same.



Name: _____

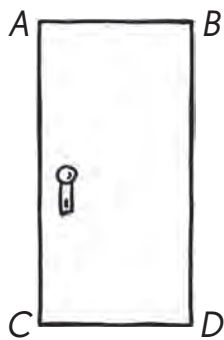
Date: _____

3.

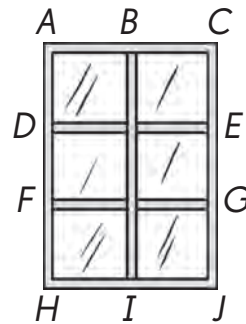


Identify and name a pair of parallel line segments on each object.

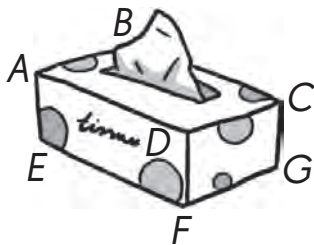
4.



5.



6.



7.