Name	Date	Class	

## **LESSON** Interactive Study Guide

## 7-1 Points, Lines, and Planes

The building blocks of geometry are the point, line, and plane. A point is an exact location in space. A line is a set of points that extend in opposite direction without end. A plane is a set of points that form a flat surface in all directions, infinitely.

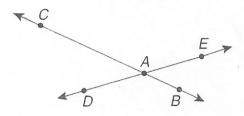
Vocabulary congruent figures congruent line segments line plane point ray

Identify Points, Lines and Planes in a Drawing Use geometry notation to identify figures.

A. points How many letters name a point? \_\_\_\_\_

Should the letter be capitalized? \_\_\_\_\_ How many points are shown in the drawing?

Name 3 points in the drawing.



B. lines

How many points name a line? \_\_\_\_\_ Name a line in the figure \_\_\_\_\_ C. plane

How many points name a plane? \_\_\_\_ Name a plane.

D. rays

When naming a ray what do you name first?

Name a ray in the above drawing.

E. line segments

What do you use to name a line segment?

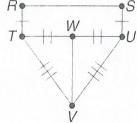
Name a line segment.

Congruent figures have the same shape and size. Congruent line segments have the same length.

Identifying Congruent Line Segments of Given Measures Identify the line segments that are congruent.

Is 
$$\overline{TV} \cong \overline{UV}$$
? \_\_\_\_\_  
Is  $\overline{TV} \cong \overline{WV}$ ? \_\_\_\_  
What is  $\overline{RT} \cong \text{to}$ ? \_\_\_\_\_

What is  $\overline{TW} \cong \text{to?}$ 



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7-2 Angles		
A <b>vertex</b> is a common endpoint for measures exactly 90°, whereas an than 90° and an <b>obtuse angle</b> meathan 180°. Angles are <b>complemen</b> 90° and <b>supplementary</b> if their means	Vocabulary acute angle complementary angles obtuse angle	
Identifying Measures of Angles Tell the measure of each angle.		right angle supplementary angles
<b>A.</b> ∠AFB		vertex
What is the measure of $\angle AFB$ ?		
B. ∠CFD		$\uparrow_C$
What is the measure of ∠CFD?	R R	
C. ∠CFE	D	
What 2 angles make up ∠CFE? _	4.	D
What is the measure of ∠CFE?	A	, F 50°
Classifying Angles Tell whether the angle is acute, rigl A. ∠BFC	nt, obtuse, or straight.	E
What does ∠BFC measure? <b>B.</b> ∠AFD	_ What kind of angle is ∠ <i>BFC</i> ?	
What does ∠AFD measure?	What kind of angle is ∠AFD?	
What does ∠CFD measure? <b>D.</b> ∠AFE	_ What kind of angle is ∠ <i>CFD</i> ?	
What does ∠AFE measure?	_ What kind of angle is ∠ <i>AFE</i> ?	
Identifying Complementary and A. Name two pairs of complements		
What is the sum of the measures of	of complementary angles?	_
Name two pairs of complementary	angles	
B. Name two pairs of supplementa	ry angles.	
What is the sum of the measures of		-
Name two pairs of supplementary	angles,	