Target 1: Demonstrate knowledge of core definitions include: point, line, segment, ray, plane, angle, etc.

Directions: Select ALL that apply in questions #1-3.

1) Which of the following has an infinite set of points?	2) Which of the following occupies	3) Which of the following do two
minite set of points:	no space of volume:	(a) $\overline{MN}$
(a) $\overline{AB}$	(a) $\overline{PQ}$	(b) $\angle T$
(b) $\overrightarrow{HG}$	(b) <i>BC</i>	(c) $\overline{QZ}$
(c) ∠ <i>L</i>	(c) ∠PAC	(d) $\overline{BD}$
(d) $\overline{TU}$	(d) point P	

Directions: Use the diagram to answer the following questions #4-9. Select all that apply!



Directions: Identify whether the given angle is acute, obtuse, right or straight. Then name the angle two ways and give an example of an angle measure.



Target 2: Determine the length, r	nidpoint, and ratios of segments					
Directions: Find the length and the midpoint or the length and $2^{nd}$ endpoint of the following line segments.						
14) If the midpoint is (-2, 5) and one endpoint is (3, -1), find the missing endpoint and the length of the segment.	15) If the midpoint is (4,1) and one endpoint is (-3,8), find the missing endpoint and the length of the segment.	16) Two endpoints (0.3, -4.2) <i>and</i> (-0.1,2.2)				
2 <sup>nd</sup> Endpoint:	2 <sup>nd</sup> Endpoint:	Length:				
Length:	Length:	Midpoint:				
Directions: Points A, B, and C are collin	near, in that order. Find the length of th	e missing segment.				
17) Find <i>BC</i> if <i>AC</i> = 19, <i>BC</i> = 19 + <i>x</i> , and <i>AB</i> = <i>x</i> + 6.	18) Find <i>AC</i> if $AB = 15x + 6$ , $AC = 2x^2 + 3x$ , and $BC = 8$ .	19) Find <i>AB</i> if $AC = -4x - 3$ , $AB = x^2 + 6x + 6$ , and $BC = 15$ .				
20) Find the location of the point R that divides the line segment $\overline{SQ}$ into two parts with the ratio of 2:9 The length of SQ is 66.	21) Find the location of the point G that divides the line segment $\overline{HF}$ into two parts with the ratio of 1:4 The length of HF is 32. $H \bullet \overline{G} \bullet F$	22) Find the location of the point U that divides the line segment $\overline{VT}$ into two parts with the ratio of 3:8 The length of VT is 47.85.				
SR =	HG =	VT =				



Directions: Copy the given line segments or rays. Then name the copy of the construction.



Directions: Construct a line segment with a length equal to the sum of the lengths of the given line segments.

27)		
<u>Draw</u>		
28)	 	
<u>Draw</u>		

Directions: Copy the following angles. Then name the copy of the angle.

