

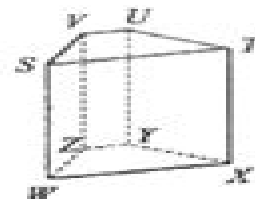
Unit 3 Test Study Guide (Parallel & Perpendicular Lines)

Name: Lauri Boudier
Date: 10/6/20 Block: 3rd

Topic 1: Parallel Lines & Planes

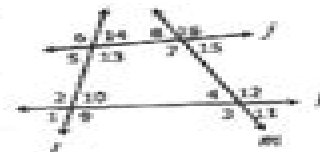
Use the diagram to the right for questions 1-5.

1. Name a plane parallel to plane HXT plane ZYV
2. Name two segments parallel to $\overline{VU}$ $\overline{ZY}$ + $\overline{YT}$
3. Name two segments parallel to $\overline{SW}$ $\overline{TX}$ + $\overline{XY}$
4. Name two segments skew to $\overline{XY}$ $\overline{ZV}$ + $\overline{ZW}$
5. Name two segments skew to $\overline{VZ}$ $\overline{TX}$ + $\overline{WT}$



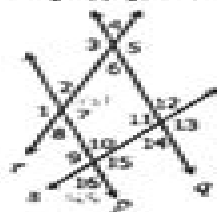
Name each angle pair as corresponding, alternate interior, alternate exterior, consecutive interior angles, or no relationship. Identify the transversal that connects each angle pair.

6. $\angle 4$ and $\angle 10$ consecutive interior; Transversal: line k
7. $\angle 8$ and $\angle 11$ alternate exterior; Transversal: line m
8. $\angle 2$ and $\angle 12$ no relationship; Transversal: line k
9. $\angle 5$ and $\angle 7$ corresponding; Transversal: line j
10. $\angle 2$ and $\angle 13$ alternate interior; Transversal: line l



Topic 2: Parallel Lines & Angles

11. If $p \parallel q$, $m\angle 7 = 131^\circ$, and $m\angle 16 = 88^\circ$, find the measure of each missing angle.



a. $m\angle 1 = 131^\circ$	f. $m\angle 6 = 49^\circ$	k. $m\angle 12 = 88^\circ$
b. $m\angle 2 = 49^\circ$	g. $m\angle 8 = 49^\circ$	l. $m\angle 13 = 92^\circ$
c. $m\angle 3 = 131^\circ$	h. $m\angle 9 = 92^\circ$	m. $m\angle 14 = 88^\circ$
d. $m\angle 4 = 49^\circ$	i. $m\angle 10 = 88^\circ$	n. $m\angle 15 = 92^\circ$
e. $m\angle 5 = 131^\circ$	j. $m\angle 11 = 92^\circ$	

12. If $a \parallel b$, $m\angle 2 = 63^\circ$, and $m\angle 9 = 105^\circ$, find the measure of each missing angle.



a. $m\angle 1 = 42^\circ$	e. $m\angle 6 = 75^\circ$	i. $m\angle 11 = 42^\circ$
b. $m\angle 3 = 75^\circ$	f. $m\angle 7 = 105^\circ$	j. $m\angle 12 = 135^\circ$
c. $m\angle 4 = 42^\circ$	g. $m\angle 8 = 75^\circ$	k. $m\angle 13 = 42^\circ$
d. $m\angle 5 = 63^\circ$	h. $m\angle 10 = 75^\circ$	l. $m\angle 14 = 135^\circ$

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Ying Liu

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the name bar.

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