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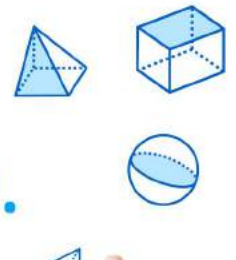

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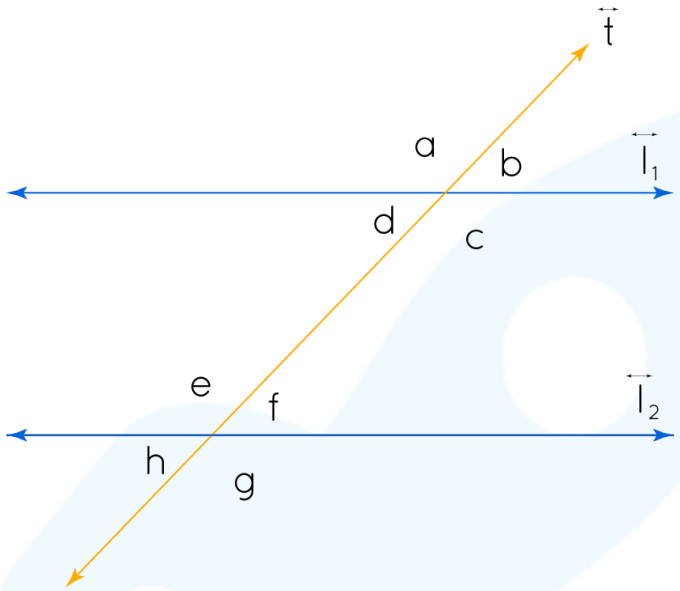
ANGLE RELATIONSHIPS WORKSHEET

Line l_1 and l_2 are parallel lines cut by a transversal m. Write the angle relationship for each pair of angles.



1. ∠e and ∠c are ___ __.

2. ∠b and ∠h are ___ __.

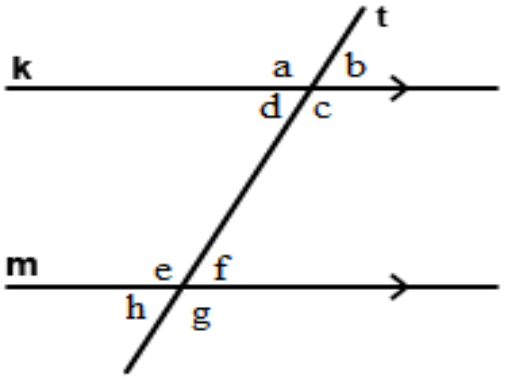
3. ∠a and ∠e are ___ __.

4. ∠h and ∠f are _____ _____.

5. True or False

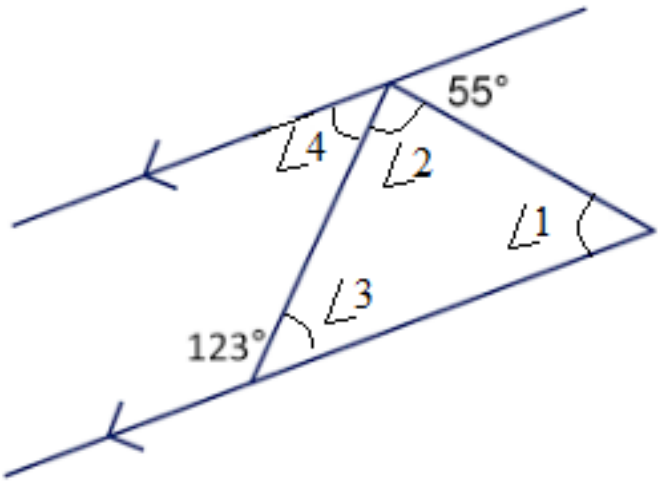
   If two parallel lines are cut by a transversal, then the pair of alternate interior angles are not equal.

6. Match the following angle relationship next to each pair of angles.



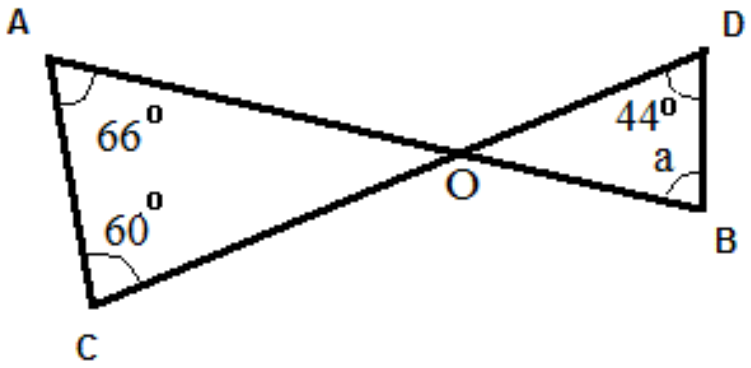
p. a and e	a. alternate interior
q. d and f	b. corresponding
r. h and b	c. linear pair
s. c and f	d. alternate exterior
t. h and g	e. same-side interior

7. Find the measure of the angles 1, 2, 3, and 4.



8. Angle K and angle L are alternate interior angles. If angle K = X + 2 degrees and angle L = 2X - 30 degrees, what is the value of X?

9. Find the value of ‘a’ in a given figure.



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- Kirk Riley

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- Barbara Cabrera

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ANSWERS

1)	Alternate interior angles
2)	Alternate Exterior Angles
3)	corresponding angles
4)	congruent angles
5)	False
6)	p-b, q-a, r-d, s-e, t-c
7)	$\angle 1=55°$, $\angle 2=68°$, $\angle 3=57°$ and $\angle 4= 57°$
8)	x=32
9)	a=82