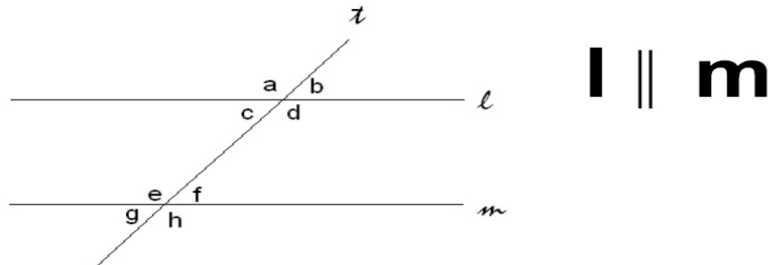


Name: _____

PSSA Math 8 - Angles formed by Parallel Lines and Transversals - Worksheet



1. $\angle d \cong \angle e$
These angles are called _____ angles.
2. $\angle a \cong \angle e$
These angles are called _____ angles.
3. Alternate interior angles form the capital letters _____ or _____.
4. Examples of Alternate Exterior angles are _____ and _____, or _____ and _____.
5. Parallel lines never _____.
6. Corresponding angles form the capital letter _____.
7. Line t is called a _____.
8. $\angle b + \angle h = \underline{\hspace{1cm}}^\circ$
9. $\angle e + \angle c = \underline{\hspace{1cm}}^\circ$
10. $\angle a \cong \angle \underline{\hspace{1cm}} \cong \angle \underline{\hspace{1cm}} \cong \angle \underline{\hspace{1cm}}$

Use the diagram above as shown to answer the following questions:

11. Given: $\angle a = 115^\circ$
 $\angle a = \underline{\hspace{1cm}}^\circ$ $\angle e = \underline{\hspace{1cm}}^\circ$
 $\angle b = \underline{\hspace{1cm}}^\circ$ $\angle f = \underline{\hspace{1cm}}^\circ$
 $\angle c = \underline{\hspace{1cm}}^\circ$ $\angle g = \underline{\hspace{1cm}}^\circ$
 $\angle d = \underline{\hspace{1cm}}^\circ$ $\angle h = \underline{\hspace{1cm}}^\circ$
12. Given: $\angle b = x + 15^\circ$, $\angle h = 2x^\circ$
 $\angle a = \underline{\hspace{1cm}}^\circ$ $\angle e = \underline{\hspace{1cm}}^\circ$
 $\angle b = \underline{\hspace{1cm}}^\circ$ $\angle f = \underline{\hspace{1cm}}^\circ$
 $\angle c = \underline{\hspace{1cm}}^\circ$ $\angle g = \underline{\hspace{1cm}}^\circ$
 $\angle d = \underline{\hspace{1cm}}^\circ$ $\angle h = \underline{\hspace{1cm}}^\circ$
13. Given: $\angle c = 3x^\circ$, $\angle h = x + 40^\circ$
 $\angle a = \underline{\hspace{1cm}}^\circ$ $\angle e = \underline{\hspace{1cm}}^\circ$
 $\angle b = \underline{\hspace{1cm}}^\circ$ $\angle f = \underline{\hspace{1cm}}^\circ$
 $\angle c = \underline{\hspace{1cm}}^\circ$ $\angle g = \underline{\hspace{1cm}}^\circ$
 $\angle d = \underline{\hspace{1cm}}^\circ$ $\angle h = \underline{\hspace{1cm}}^\circ$