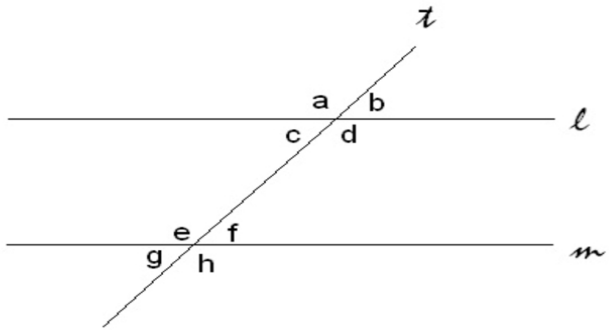
Parallel Lines and Angle Sums - Worksheet



l ∥ m

1. ∠d ≅ ∠e
   These angles are called_____ angles
2. ∠a ≅ ∠e
   These angles are called_____ angles.
3. Alternate interior angles form the capital letters_____ or _____ .
4. Corresponding angles form the capital letter_____ .
5. Interior angles form the capital letter_____ .
6. Parallel lines never _____ .
7. Line **t** is called a _____ .
8. ∠b + ∠h = _____ °
9. ∠e + ∠c = _____ °
10. ∠a ≅ ∠___ ≅ ∠___ ≅ ∠___

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

11. Given: ∠a = 115 °

∠a = _____ °	∠e = _____ °
∠b = _____ °	∠f = _____ °
∠c = _____ °	∠g = _____ °
∠d = _____ °	∠h = _____ °

12. Given: ∠b = x + 15 °, ∠h = 2x °

∠a = _____ °	∠e = _____ °
∠b = _____ °	∠f = _____ °
∠c = _____ °	∠g = _____ °
∠d = _____ °	∠h = _____ °

13. Given: ∠c = 3x °, ∠h = x + 40 °

∠a = _____ °	∠e = _____ °
∠b = _____ °	∠f = _____ °
∠c = _____ °	∠g = _____ °
∠d = _____ °	∠h = _____ °