**NAME: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Geometry Part 3B Test Study Guide**

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| 1. Determine if the angles below form a triangle. Show your work. State YES or NO on the line.  **95°, 7°, 78°**  \_\_\_\_\_\_\_\_\_\_\_\_ | 2. Determine if the angles below form a triangle. Show your work. State YES or NO on the line.  **116°, 9°, 60°**  \_\_\_\_\_\_\_\_\_\_\_\_ |
| 3. Write and solve the equation to find the value of the missing angle. SHOW YOUR WORK.  Diagram  Description automatically generated  \_\_\_\_\_\_\_\_ degrees | 4. Write and solve the equation to find the value of x. SHOW YOUR WORK.  Triangle Sum Theorem | CK-12 Foundation  \_\_\_\_\_\_\_\_ degrees |
| 5. Write and solve the equation to find the value of the missing angle. SHOW YOUR WORK.  Triangle Sum Theorem | CK-12 Foundation🡨 Missing Angle  \_\_\_\_\_\_\_\_ degrees | 6. Using the Triangle Inequality Theorem, determine if these sides form a triangle. SHOW YOUR WORK.  **1, 5, 1**    Do the sides form a triangle? \_\_\_\_\_\_\_\_ |
| 7. Find the range of lengths for the third side of the triangle using the lengths of the other two sides  **7 ft and 13 ft**    **RANGE: \_\_\_\_\_\_\_\_\_\_\_ < x < \_\_\_\_\_\_\_\_\_\_** | 8. What would be the cross section of a rectangular prism that is sliced vertically?  A picture containing text, table, worktable, stand  Description automatically generated  A.) rectangle  B.) triangle  C.) pentagon  D.) trapezoid |
| 9. Identify the shape of the cross section.  A picture containing shape  Description automatically generated  A.) rectangle  B.) ellipse  C.) triangle  D.) trapezoid | 10. What would be the cross section of a cone that is sliced horizontally?  Chart  Description automatically generated  A.) rectangle  B.) ellipse  C.) triangle  D.) circle |
| 11. What is the classification of the triangle by its angles?  A.) obtuse  B.) right  C.) acute  Shape  Description automatically generated | 12. What is the classification of the triangle by its sides?  Diagram  Description automatically generated  A.) equilateral  B.) scalene  C.) isosceles |
| 13. What is the classification of the triangle by its angles and by its sides?  A picture containing antenna  Description automatically generated  A.) acute, equilateral  B.) right, equilateral  C.) obtuse, isosceles  D.) obtuse, equilateral | 14. What is the classification of the triangle by its angles and by its sides?  Diagram  Description automatically generated  A.) acute, isosceles  B.) right, equilateral  C.) obtuse, scalene  D.) right, scalene |