**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 generatedA.) rectangleB.) triangle C.) pentagonD.) trapezoid |
| 9. Identify the shape of the cross section. A picture containing shape  Description automatically generatedA.) rectangleB.) ellipseC.) triangleD.) trapezoid | 10. What would be the cross section of a cone that is sliced horizontally? Chart  Description automatically generatedA.) rectangleB.) ellipseC.) triangleD.) circle |
| 11. What is the classification of the triangle by its angles? A.) obtuseB.) rightC.) acuteShape  Description automatically generated | 12. What is the classification of the triangle by its sides? Diagram  Description automatically generatedA.) equilateralB.) scalene C.) isosceles  |
| 13. What is the classification of the triangle by its angles and by its sides? A picture containing antenna  Description automatically generatedA.) acute, equilateralB.) right, equilateralC.) obtuse, isoscelesD.) obtuse, equilateral | 14. What is the classification of the triangle by its angles and by its sides? Diagram  Description automatically generatedA.) acute, isoscelesB.) right, equilateralC.) obtuse, scaleneD.) right, scalene |