

Name : \_\_\_\_\_ Score : \_\_\_\_\_

Teacher : \_\_\_\_\_ Date : \_\_\_\_\_

### Triangle Inequality Theorem

State if each set of three numbers can be the lengths of the sides of a triangle.

1) 7.0, 4.7, 2.0

6) 6, 2, 5

2) 6.0, 2.6, 9.7

7) 4, 3, 6

3) 5, 4, 2

8) 3, 6, 4

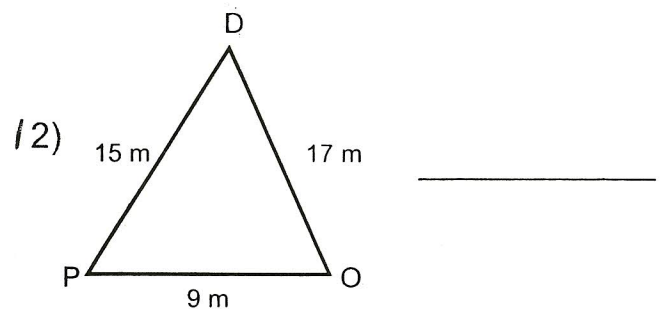
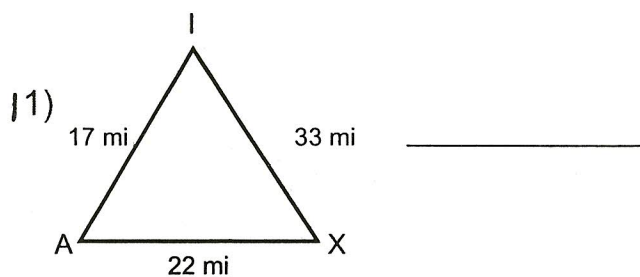
4) 4.8, 3.5, 9.7

9) 12.7, 11.5, 25.0

5) 9.6, 10.7, 22.0

10) 6, 3, 13

Order each triangle's angles from largest to smallest.



13) For  $\triangle GJY$  \_\_\_\_\_  
JY = 11 m  
GJ = 27 m  
YG = 22 m

14) For  $\triangle TOV$  \_\_\_\_\_  
OV = 18 in  
TO = 37 in  
VT = 22 in

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**Exterior Angle Theorem**  
Solve for the given variable.

