

Geometry Worksheet
Inequalities in One Triangle

Name _____
 Date _____ Period _____

In exercises 1-10, the lengths of two sides of a triangle are given. First, write an inequality to describe all possible values for x , the length of the third side of the triangle. Then, if domain of x is limited to the set $\{\frac{1}{2}, 1, 4, 7, 9, 3, 14, 19\}$, list all possible values for x .

- | | | |
|---------|---------------------------------|---------------------------------|
| 1. 7, 8 | 5. 10, 10 | 8. 3, 9, 2, 3 |
| 2. 5, 5 | 6. $6\frac{1}{3}, 4\frac{1}{3}$ | 9. $2\frac{1}{2}, 5\frac{1}{2}$ |
| 3. 1, 8 | 7. 5, 1, 4, 4 | 10. 5, 11 |
| 4. 3, 6 | | |

11. If the lengths of two sides of a triangle are 9 and 15, between what two numbers does the length of the third side lie?
12. If the lengths of two sides of a triangle are 3 and 7, then the length of the third side must be less than _____.
13. The lengths of two sides of a triangle are 7 and 10. Between what two numbers does the third side lie?
14. The length of a leg of an isosceles triangle is 9. Between what two numbers does the length of the third side lie?
15. Each leg of an isosceles triangle has length 12. Between what two numbers does the length of the base lie?

In exercises 16-24, state whether it is possible for a triangle to exist with sides of the given lengths.

- | | | |
|--------------|-------------------------------|-------------------------------------|
| 16. 6, 11, 4 | 19. $x, 2x, x$ ($x > 0$) | 22. $x, y, x+y$ (x and $y > 0$) |
| 17. 9, 9, 10 | 20. $3x, 2x, 4x$ ($x > 0$) | 23. $x, y, x-y$ (x and $y > 0$) |
| 18. 8, 15, 7 | 21. $x, x+3, x+4$ ($x > 1$) | 24. $2x, 2x+2, 4x+3$ ($x > 0$) |

25. In $\triangle ABC$, $m\angle A = 40$ and $m\angle ACB = 110$, what is the longest side of $\triangle ABC$?

26. What angle is the largest in $\triangle PQR$?

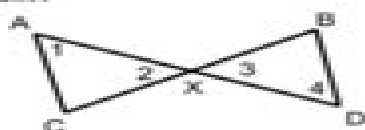


27. What side is the shortest in $\triangle ABC$?



28. What side in a right triangle is the longest?

29. If $AC > CX$, and $BX > BD$, then which angle is larger, $\angle 1$ or $\angle 4$?



30. If $m\angle VRT = 120$ and $m\angle S > m\angle T$, then the longest side of $\triangle RST$ is _____.



31. In $\triangle ABC$, if $\overline{AB} \cong \overline{BC}$, $m\angle 1 = 6x + 2$ and $m\angle 2 = 8x - 20$, find $m\angle B$.



Practice B Inequalities In Two Triangles

Jin-Ying Zhang



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