



Do the side lengths below form a triangle?
Support your answer with an inequality statement.

2 2 7

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Do the side lengths below form a triangle?
Support your answer with an inequality statement.

10 6 5

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Do the side lengths below form a triangle?
Support your answer with an inequality statement.

11 9 13

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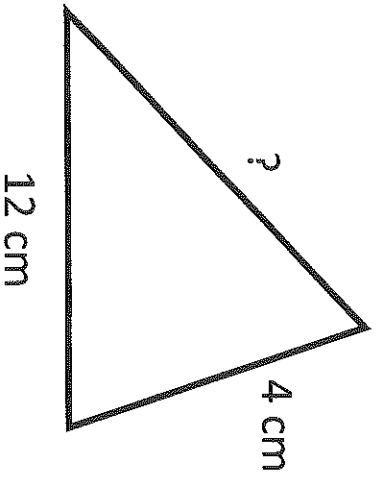
Do the side lengths below form a triangle?
Support your answer with an inequality statement.

8 17 25

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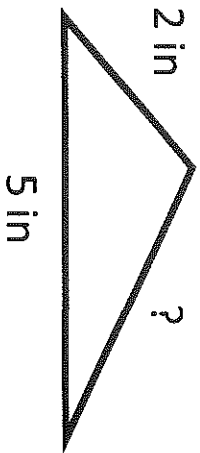
Is 15 cm, 16 cm, or 17 cm the possible third side length of the triangle below?



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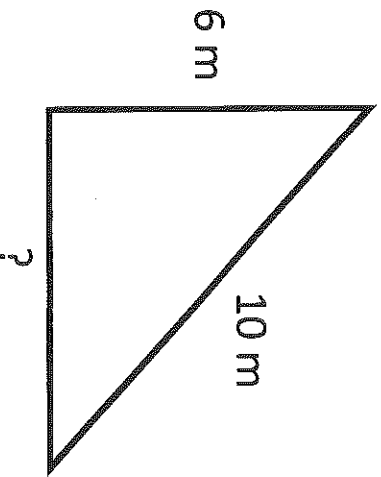
Is 6 in, 7 in, or 8 in the possible third side length of the triangle below?



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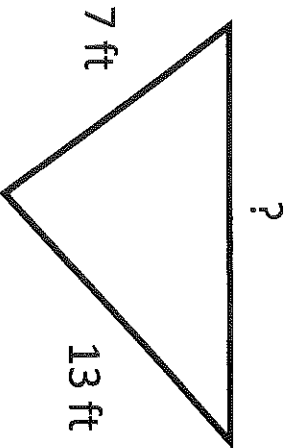
Is 4 m, 8 m, or 16 m the possible third side length of the triangle below?



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Which of the following could not be a third side length of the triangle below:
7 ft, 20ft, or 25 ft?



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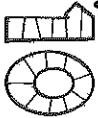
What is the range of possible side lengths of the third side of a triangle with side lengths of 7 and 11?

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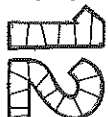
What is the range of possible side lengths of the third side of a triangle with side lengths of 45 and 13?

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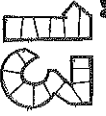
What is the range of possible side lengths of the third side of a triangle with side lengths of 15 and 4?

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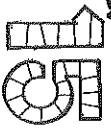
What is the range of possible side lengths of the third side of a triangle with side lengths of 30 and 57?

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Is 5 in the range of possible lengths of the third side of a triangle with side lengths of 19 and 14? What is the range?

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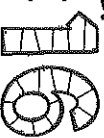
Is 9 in the range of possible lengths of the third side of a triangle with side lengths of 21 and 29? What is the range?

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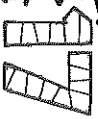
Is 12 in the range of possible lengths of the third side of a triangle with side lengths of 6 and 16? What is the range?

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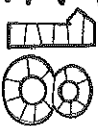
Is 14 in the range of possible lengths of the third side of a triangle with side lengths of 1 and 10? What is the range?

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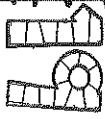
How many possible side lengths are there for the third side of a triangle with side lengths of 3 and 10?

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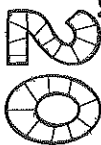
How many possible side lengths are there for the third side of a triangle with side lengths of 7 and 16?

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How many possible side lengths are there for the third side of a triangle with side lengths of 4 and 6?

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How many possible side lengths are there for the third side of a triangle with side lengths of 8 and 12?

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A

Penelope said that the side lengths of 4, 12, and 8 could form a triangle because $4 + 8 = 12$. Is she correct? Explain.

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B

Chris stated that 10 was in the range of possible lengths of the third side of a triangle with side lengths of 5 and 15 because the range was $10 < x < 25$. What is his mistake?

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C

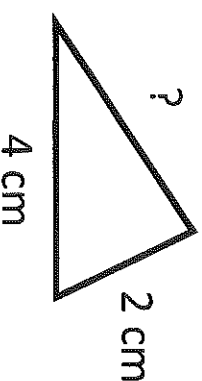
Donnie found that there were five possible lengths for the third side of a triangle with side lengths of 3 and 7. His list appears below. What is his mistake?

3, 4, 5, 6, 7

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D

Mona stated that 9 cm was a possible third side length of the triangle below because 9 is greater than the other two numbers. What is her mistake?



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