Name:

Date: _____

Fresh Math

Theorems Triangle Properties

Solve for x. Show your work.

- 1. Can a triangle have sides 6, 7, 15? Why?
- 2. Can a triangle have sides 9, 11, 14? Why?

- 3. In triangle ABC, angle A = 53^circ, angle B = 57^circ, angle C = 70^circ. Which side is longest?
- 4. Can a triangle have sides 6, 9, 16?
 Why?

- 5. A triangle has base 16 and area 63. Find the altitude to that base.
- 6. In triangle ABC, angle A = 54^circ, angle B = 66^circ, angle C = 60^circ. Which side is longest?

- 7. Can a triangle have sides 9, 12, 12? Why?
- 8. A triangle has base 11 and area 72. Find the altitude to that base.



Theorems Triangle Properties - Answer Key

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- Can a triangle have sides 9, 11, 14?Why?

3. In triangle ABC, angle A = 53^circ, angle B = 57^circ, angle C = 70^circ. Which side is longest?

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Why?

AB (opposite C)

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7.875

6. In triangle ABC, angle A = 54°circ, angle B = 66°circ, angle C = 60°circ. Which side is longest?

AC (opposite B)

- 7. Can a triangle have sides 9, 12, 12? Why?
- 8. A triangle has base 11 and area 72. Find the altitude to that base.

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