Math Practice - Grade 7

M7 Geometry: scale drawings and construction - One triangle, more than one, or none?

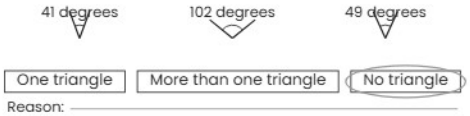
M7 7.G.1, 7.G.2, 7.G.3

Name: _____ Date: _____

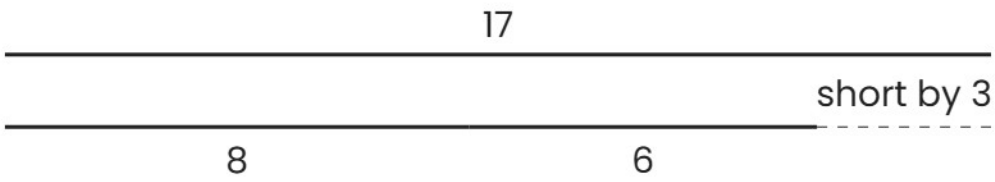
Circle One triangle, More than one triangle, or No triangle. Write one reason on the line.

Example: Three angles are 41, 102, and 49 degrees. Circle One triangle, More than one triangle, or No triangle. Write one reason on the line.

How: Three angles must add to 180 degrees, and the two short sides must add to more than the long side. Three sides make one triangle, and three angles make more than one.



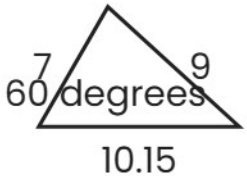
1 Sides 8, 6, and 17. Circle One triangle, More than one triangle, or No triangle. Write one reason on the line.



One triangle | More than one triangle | No triangle

Reason: _____

2 Two sides are 9 and 7, and the angle opposite the side of length 9 is 60 degrees. Circle One triangle, More than one triangle, or No triangle. Write one reason on the line.



One triangle | More than one triangle | No triangle

Reason: _____

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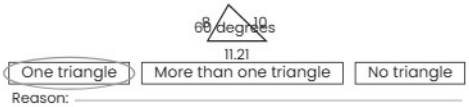
M7 7.G.1, 7.G.2, 7.G.3

Name: _____ Date: _____

Circle One triangle, More than one triangle, or No triangle. Write one reason on the line.

Example: Two sides are 10 and 8, and the angle opposite the side of length 10 is 60 degrees. Circle One triangle, More than one triangle, or No triangle. Write one reason on the line.

How: Three angles must add to 180 degrees, and the two short sides must add to more than the long side. Three sides make one triangle, and three angles make more than one.



1 Sides 2, 6, and 10. Circle One triangle, More than one triangle, or No triangle. Write one reason on the line.

10

short by 2

2 6

One triangle | More than one triangle | No triangle

Reason: _____

2 Sides 2, 3, and 6. Circle One triangle, More than one triangle, or No triangle. Write one reason on the line.

6

short by 1

2 3

One triangle | More than one triangle | No triangle

Reason: _____

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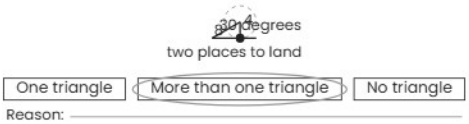
M7 7.G.1, 7.G.2, 7.G.3

Name: _____ Date: _____

Circle One triangle, More than one triangle, or No triangle. Write one reason on the line.

Example: Two sides are 4 and 8, and the angle opposite the side of length 4 is 30 degrees. Circle One triangle, More than one triangle, or No triangle. Write one reason on the line.

How: Three angles must add to 180 degrees, and the two short sides must add to more than the long side. Three sides make one triangle, and three angles make more than one.



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1 **Two sides are 3 and 5, and the angle opposite the side of length 3 is 30 degrees. Circle One triangle, More than one triangle, or No triangle. Write one reason on the line.**



two places to land

One triangle | More than one triangle | No triangle

Reason: _____

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2 **Sides 5, 6, and 11. Circle One triangle, More than one triangle, or No triangle. Write one reason on the line.**

11

exactly meets

5 6

One triangle | More than one triangle | No triangle

Reason: _____