Math Practice - Grade 7

M7 Geometry: scale drawings and construction

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

Name: _____ Date: _____

Find the actual length or area from the scale drawing. Find the scale factor. Decide whether the sides or angles make one triangle, more than one, or no triangle. Name the shape made by slicing the solid.

1 **Scale: 1 inch = 8 meters. The drawing is 20 in by 14 in. Find the actual length of the width.**

Scale: 1 inch = 8 meters



Actual length ☐

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2 **A shape is enlarged by a scale factor of 3. The original side is 4 inches long. How long is the copy side?**

Copy length ☐

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3 **Two sides are 10 and 9, 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.**



One triangle | More than one triangle | No triangle

Reason: _____

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Find the actual length or area from the scale drawing. Find the scale factor. Decide whether the sides or angles make one triangle, more than one, or no triangle. Name the shape made by slicing the solid.

1 **Scale: 1 inch = 4 feet. The drawing is 20 in by 18 in. Find the actual area.**

Scale: 1 inch = 4 feet



Actual area _____

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2 **A drawing is 4 inches long. The real object is 8 feet long. What is the scale? Write it as 1 inch = ? feet.**

1 inch = _____

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3 **Three angles are 115, 42, and 23 degrees. Circle One triangle, More than one triangle, or No triangle. Write one reason on the line.**

115 degrees



42 degrees



23 degrees



One triangle | More than one triangle | No triangle

Reason: _____

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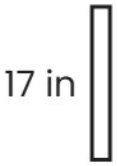
Find the actual length or area from the scale drawing. Find the scale factor. Decide whether the sides or angles make one triangle, more than one, or no triangle. Name the shape made by slicing the solid.

1 **Scale: 1 inch = 9 meters. The drawing is 2 in by 17 in. Find the actual length of the height.**

Scale: 1 inch = 9 meters



Actual length ☐

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2 **A drawing is 4 inches long. The real object is 24 feet long. What is the scale? Write it as 1 inch = ? feet.**

1 inch = ☐

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3 **Three angles are 38, 74, and 68 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: _____