Math Practice - Grade 7

M7 Geometry: scale drawings and construction - Actual length and area from a scale drawing

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

Name: _____ Date: _____

Read the scale. Write the actual length or area in the box.

Example: Scale: 1 inch = 2 meters. The drawing is 19 in by 17 in. Find the actual area.

How: Multiply a drawing length by the scale factor to get the real length. For area, multiply by the scale factor squared, not by the scale factor.

Scale: 1 inch = 2 meters

17 in ☐

19 in

Actual area 1292 square meters

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1 **Scale: 1 inch = 7 meters. The drawing is 15 in by 14 in. Find the actual area.**

Scale: 1 inch = 7 meters



Actual area ☐

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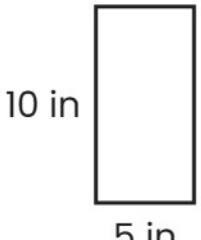
2 **Scale: 1 inch = 9 meters. The drawing is 5 in by 10 in. Find the actual length of the height.**

Scale: 1 inch = 9 meters



Actual length ☐

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Name: _____ Date: _____

Read the scale. Write the actual length or area in the box.

Example: Scale: 1 inch = 9 feet. The drawing is 9 in by 10 in. Find the actual length of the height.

How: Multiply a drawing length by the scale factor to get the real length. For area, multiply by the scale factor squared, not by the scale factor.

Scale: 1 inch = 9 feet



Actual length 90 feet

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1 **Scale: 1 inch = 2 meters. The drawing is 14 in by 6 in. Find the actual area.**

Scale: 1 inch = 2 meters



Actual area _____

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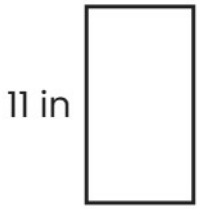
2 **Scale: 1 inch = 7 feet. The drawing is 6 in by 11 in. Find the actual length of the width.**

Scale: 1 inch = 7 feet



Actual length _____

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Name: _____ Date: _____

Read the scale. Write the actual length or area in the box.

Example: Scale: 1 inch = 5 meters. The drawing is 6 in by 16 in. Find the actual length of the height.

How: Multiply a drawing length by the scale factor to get the real length. For area, multiply by the scale factor squared, not by the scale factor.

Scale: 1 inch = 5 meters



Actual length 80 meters

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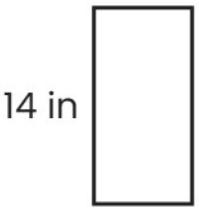
1 **Scale: 1 inch = 6 meters. The drawing is 7 in by 14 in. Find the actual area.**

Scale: 1 inch = 6 meters



Actual area _____

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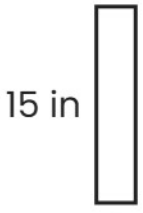
2 **Scale: 1 inch = 7 meters. The drawing is 3 in by 15 in. Find the actual length of the width.**

Scale: 1 inch = 7 meters



Actual length _____