Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_

**7.5B Scale Drawings\_Classwork**

*Objective: find scale factors CC.SS.7.G.1 HW: textbook- 7.5B pg 303\_#12-16, #22, 23, 30*

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| **WARM-UP**  Write each fraction in the simplest form.  1. 2.  Converting the following measurements.  3. 192 inches = \_\_\_\_\_\_\_ feet 4. 18.5 feet = \_\_\_\_\_\_\_\_ inches 5. 324 inches = \_\_\_\_\_\_ feet |
| A scale drawing (model ) … |
| A scale factor ….  Examples: |

Find the missing dimension. Use the scale factor 1 : 5.

1. Model: 3 ft 2. Model: 7 m

Actual:  Actual: 

3. Model:  4. Model: 

Actual: 20 yd Actual: 12.5 cm

Find the missing dimension. Use the scale factor 2 : 5.

5. Model: 10 km 6. Model: 5 in.

Actual:  Actual: 

7. Model:  8. Model: 

Actual: 24 ft Actual: 32.5 m

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| 1. *Finding a Scale Factor. Identify the scale factor.* |
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| 1. *Using Scale Factors to find unknown lengths.*   A photograph was enlarged and made into a poster. The poster is 20.5 inches by 36 inches. The scale factor is 5in/1in. Find the size of the photograph. |
| 1. *Using Scale Factors to find the unknown value.*   Mary’s father made her a dollhouse which was modeled after the blueprint of their home. The blueprint is 24 inches by 45 inches. The scale factor is 1.5in/1in. Find the size of the dollhouse. |
| 1. *Using Scale Factors to find then unknown value.*   On a road map, the distance between Pittsburgh and Philadelphia is 7.5 inches. What is the actual distance between the cities if the map scale is 1.5 inches = 60 miles? |
| 1. *Identify the Scale Factor.*      1. On a scale drawing, a kitchen wall is 6 inches long. The scale factor is 1in/24in. What is the length of the actual wall. 2. On a road map, the distance from Green Bay to Chicago is 11 cm. What is the actual distance between the cities if the map scale is 3 cm = 90 km? |