GRADE 7 MATH · CLASSWORK

Use Scale Factors to Solve Area Problems

SCORE / 25

01 Part A · Practice

Change each drawing length to an actual length first, then find the area.

EXAMPLE

A plan uses 1 cm = 3 m. A room is 4 cm by 2 cm. Find the actual area.

1. Actual length: 4 × 3 = 12 m.
2. Actual width: 2 × 3 = 6 m.
3. Area: 12 × 6 = 72 m^2.

1 ●○○ Scale 1 cm = 6 m. A basketball court is 2.5 by 3.5 cm on the plan. Find its actual area.

2 ●○○ Scale 1 in. = 12 yd. An 11.5 by 6 in. rectangle is drawn. Find the drawing area and the actual area.

3 ●○○ Find the actual area of the room in the scale drawing.



Key: 1 in. = 6 yd

4 ●○○ Find the actual area of the room in the scale drawing.



Key: 1 cm = 12 m

5 ●○○ Scale 1 in. = 15 yd. A park is 6 by 9 in. on the plan. Find its actual area.

6 ●○○ Scale 1 in. = 5 yd. An 8.5 by 6 in. rectangle is drawn. Find the drawing area and the actual area.

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Preview - the full worksheet and its answer key are at primeworksheet.com