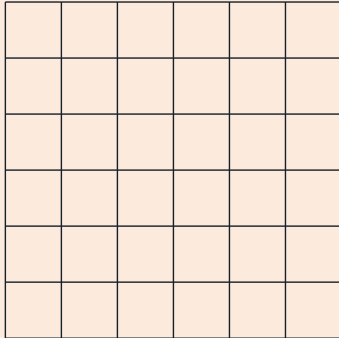


ENLARGE A 2 CM BY 3 CM RECTANGLE BY SCALE FACTOR 2

- 1 Start with sides of 2 cm and 3 cm.
- 2 Multiply each length by 2.
- 3 The new sides measure 4 cm and 6 cm.

WARM-UP

Complete the grid by marking the enlargements symmetrically.



1. Mark the 9 cm by 11 cm rectangle enlarged by scale factor 4
2. Show the new sides of 36 cm and 44 cm on the grid
3. Add the enlargement of a 4 cm side by scale factor 3 to reach 12 cm

PRACTICE

- 1 In the model building a 15 cm block is enlarged by scale factor 15. What is the new length? _____
- 2 The builder enlarges a 14 cm plank by scale factor 14. How long is the copy? _____
- 3 A 7 cm wall section is scaled by factor 8 for the larger model. What length results? _____
- 4 Enlarge the 5 cm beam by scale factor 2 in the construction plan. Find the new size. _____
- 5 The small 6 cm frame is enlarged by scale factor 3. What is the enlarged length? _____

? ALWAYS, SOMETIMES, NEVER

Always, sometimes or never true? Write A, S or N.

- | | |
|--|--|
| a. Enlarging by scale factor 2 doubles every length on the shape. ☐ | c. The area of a shape enlarged by scale factor 2 becomes twice as big. ☐ |
| b. A rectangle enlarged by scale factor 3 stays a rectangle. ☐ | d. A shape enlarged by scale factor 3 can become a different shape. ☐ |

