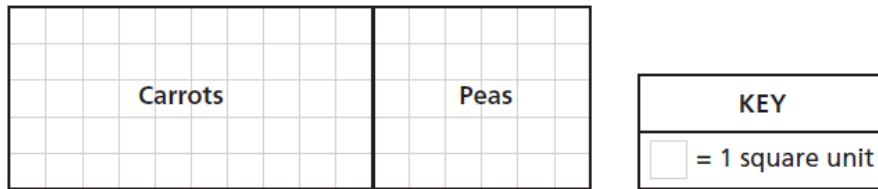


Name: _____

Date: _____

1. The garden below was divided into two regions—one for carrots and one for peas.

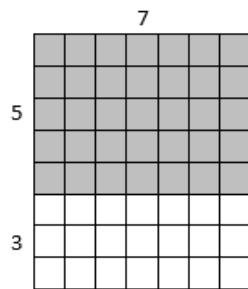


Which expression represents the area, in square units, of the whole garden?

- A. $(5 + 10) + (5 + 6)$
- B. $(5 \times 10) \times (5 \times 6)$
- C. $(5 \times 10) + (5 \times 6)$
- D. $(5 + 10) \times (5 + 6)$

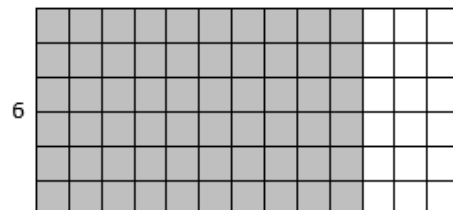
2. Label the side lengths of the shaded and unshaded rectangles when needed. Then, find the total area of the large rectangle by adding the areas of the two smaller rectangles.

a.



$$\begin{aligned}
 8 \times 7 &= (5 + 3) \times 7 \\
 &= (5 \times 7) + (3 \times 7) \\
 &= \underline{\quad} + \underline{\quad} \\
 &= \underline{\quad} \\
 \text{Area: } &\underline{\quad} \text{ square units}
 \end{aligned}$$

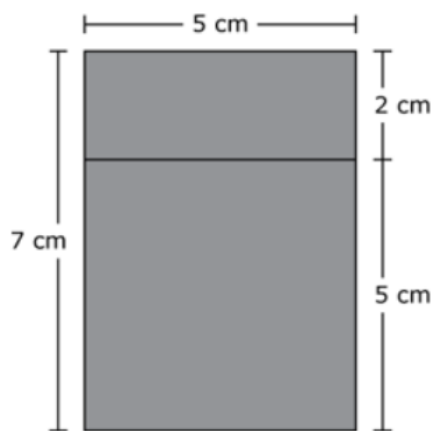
b.



$$\begin{aligned}
 6 \times 13 &= 6 \times (\underline{\quad} + 3) \\
 &= (6 \times \underline{\quad}) + (6 \times 3) \\
 &= \underline{\quad} + \underline{\quad} \\
 &= \underline{\quad} \\
 \text{Area: } &\underline{\quad} \text{ square units}
 \end{aligned}$$

3. Which expressions can be used to find the total area, in square centimeters, of these two rectangles?

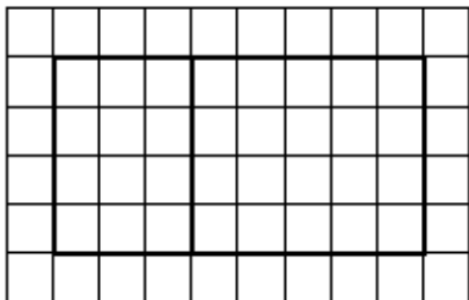
Select the **two** expressions that represent the total area.



- A. $5 + 7$
- B. 5×7
- C. 5×5
- D. 7×7
- E. $(5 \times 2) + (5 \times 5)$
- F. $(5 \times 2) + (2 \times 2)$

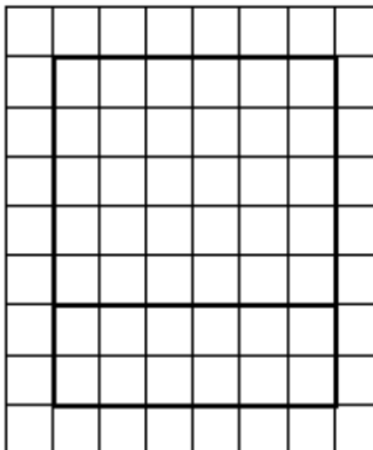
4. Write 3 different expressions that could be used to find the area of each rectangle below. Then, use one of your expressions to find the area.

a.



Area:

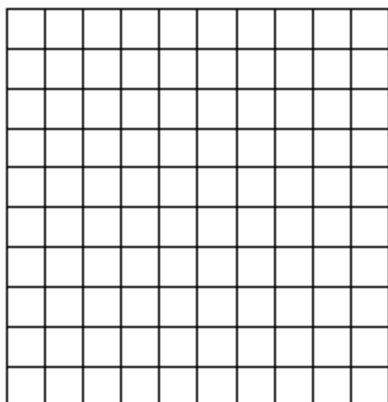
b.



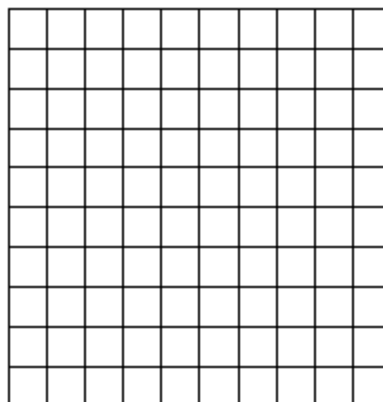
Area:

5. Draw the rectangle that matches each expression in the grids underneath. Then find the area of the rectangle.

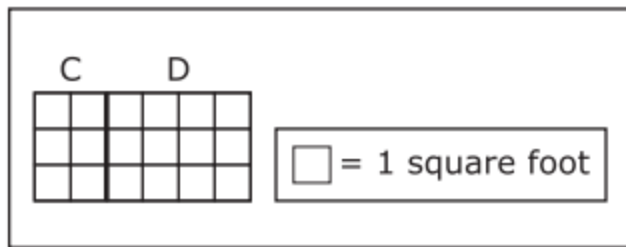
a. $(2 \times 8) + (3 \times 8)$



b. $(5 + 2) \times 4$



6. The grid below shows table C and table D placed end to end to make a new, larger tabletop.

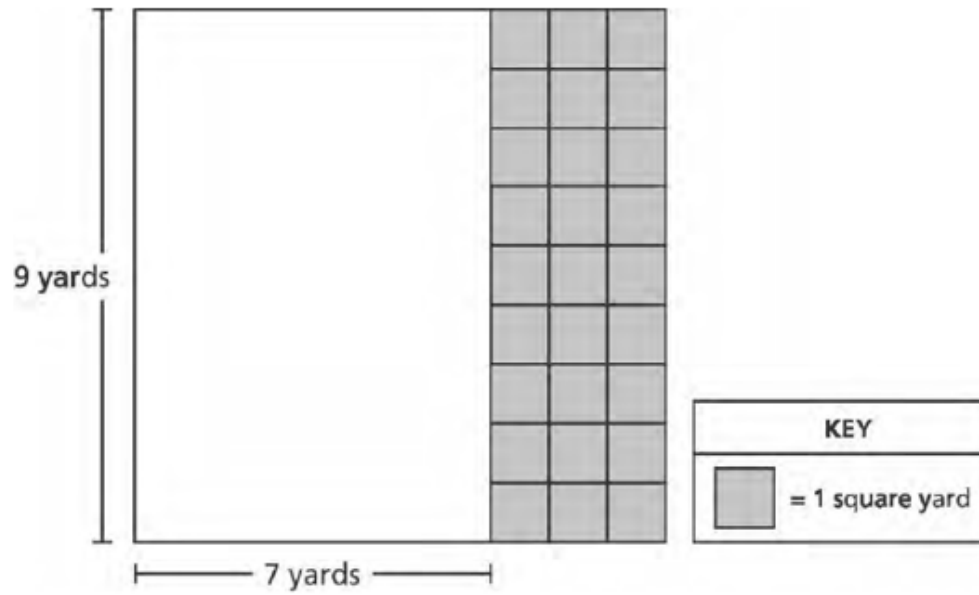


Tori uses the expression $3 \times (2 + 4)$ to find the total area of the new, larger tabletop.

Leo uses the expression $(3 \times 2) + (3 \times 4)$ to find the total area of the new, larger tabletop.

- Find the total area, in square feet, of the new, larger tabletop.
- Use the grid to explain why both Tori's expression and Leo's expression are correct.

7. Mr. Nuccio's sandwich shop was 9 yards long as 7 yards wide before he added a new section. The shaded squares below represent the new section.



What is the total area, in square yards, of Mr. Nuccio's sandwich shop after the new section was added?

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