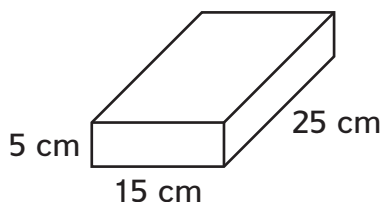


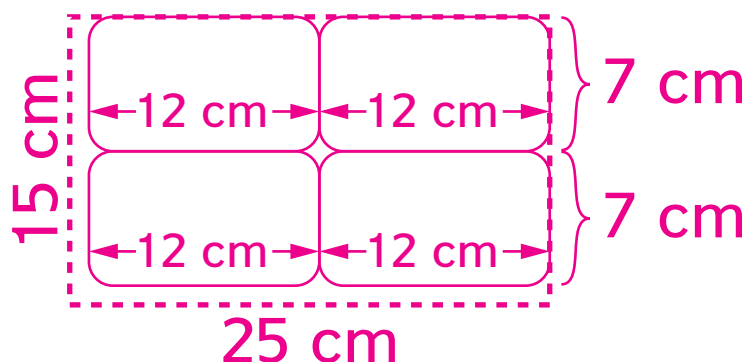
Using Multiplication



Ms. Patel wants to keep her classroom calculators in a box that is 25 centimeters long, 15 centimeters wide, and 5 centimeters tall. The calculators measure 12 centimeters long, 7 centimeters wide, and 1 centimeter tall. How many calculators can Ms. Patel fit in the box?



- ① Solve this problem. Show or explain how you solved the problem.



Four calculators fit in a layer. The box is 5 cm tall, so there are 5 layers of calculators. The box fits 4 calculators * 5, which is 20 calculators in all.

- ② Show or explain how you know your answer makes sense.

Sample answer: I drew a picture of the bottom layer. I made sure that all of the numbers in the problem and the parts of the picture were labeled to show what is meant in the problem. Since the height of the box is 5 cm, there will be 5 calculators in each stack and there are 4 stacks. $4 * 5 = 20$ calculators, so my answer makes sense.

Practice

Sketch a rectangle or use partial products to solve.

③ $27 * 4 = \underline{108}$

④ $48 * 9 = \underline{432}$

⑤ $43 * 3 = \underline{129}$

⑥ $81 * 5 = \underline{405}$