1. Maura wants to make a rectangular picture frame with a perimeter of 50 inches. Which pairs of dimensions could she use? Mark all that apply.

- A length: 25 inches width: 2 inches
- B length: 20 inches width: 5 inches
- C length: 17 inches width: 8 inches
- D length: 15 inches width: 5 inches
- E length: 15 inches width: 10 inches

2. The swimming club's indoor pool is in a rectangular building. Marco is laying tile around the rectangular pool.

Part A

What is the area of the pool and the combined area of the pool and the walkway? Show your work. **Check students' work**

**Pool:** \(20 \times 16 = 320\); **320 square meters**

**Pool and walkway:** \(26 \times 22 = 572\); **572 square meters**

Part B

How many square meters of tile will Marco need for the walkway? Explain how you found your answer.

252 square meters; Possible answer: I subtracted the area of the pool from the combined area of the pool and walkway: **572 - 320 = 252**, so Marco will need **252 square meters of tile**.

3. Ms. Bennett wants to buy carpeting for her living room and dining room.

**Possible explanation:** She can find the area of each rectangle and then find the sum. The area of the living room is \(20 \times 20 = 400\) square feet. The area of the dining room is \(15 \times 10 = 150\) square feet. The sum of the two rooms is \(400 + 150 = 550\) square feet of carpeting.

4. Which rectangle has a perimeter of 10 feet? Mark all that apply.

- A 4 ft 2 ft
- B 5 ft 2 ft
- C 3 ft 2 ft
- D 4 ft 6 ft

5. Tricia is cutting her initial from a piece of felt. Which expressions correctly complete the statement?

Tricia can add the products of \(3 \times 5\) and \(1 \times 3\) to find the square centimeters of felt she needs.