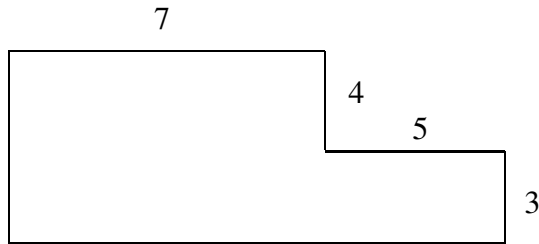


Student Name: _____

1. There are 27 students in a class. Out of all the students, 18 are taking art lessons and 13 are taking swimming lessons. If we know that every student is enrolled in at least one of an art lesson or swimming lesson, how many students are taking both art and swimming lessons?

Answer: _____

2.



Determine the perimeter of the above shape.

Answer: _____

3. Cindy noticed that, apart from her, there are 10 girls and 9 boys in her Math class. What percentage of her class are girls?

Answer: _____

4. A certain restaurant offers two different types of appetizers, three different entrée, and two different desserts. If I want to buy one appetizer, one entrée, and one dessert for my dinner, how many combinations can I choose from?

Answer: _____

5. A pair of shoes originally costs \$100 but is marked 40% off. In addition, Carol has a card that saves 30% off the discounted price. How much does Carol need to pay for the shoes? (Assume that there is no tax.)

Answer: _____

6. The product of 3 consecutive whole numbers is 990. What is the smallest of the 3 numbers?

Answer: _____

Student Name: _____

7. Triangle ABC has side lengths $AB = 2$, and $BC = 4$. What are the possible whole number side lengths for AC ?

Answer: _____

8. What is the maximum number of times a square and a circle can intersect?

Answer: _____