Lincoln Math Competition

# Team Tumble NN Spring 2025

### Team ID: \_\_\_\_\_\_ Room number: \_\_\_\_\_

#	Answer	Points $(0/1)$
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
		Total:

### Problems

- 1. Brielle is drawing a repeating pattern of hearts, stars, and smiley faces. The pattern follows this order: heart, star, smiley face, heart, star, smiley face, and so on. It takes Brielle 2 seconds to draw a heart, 4 seconds to draw a star, and 6 seconds to draw a smiley face. If Brielle continues this pattern for 90 seconds, how many stars will she have drawn?
- 2. Bradley the dog has two red socks, eight blue socks and six yellow socks in a drawer. How many socks does Bradley need to take out at random to be sure he will get at least 4 socks of the same color?
- 3. Annie, Bonnie, Connie and Donnie ran a race. Annie says: "I was two places ahead of Donnie." Bonnie says: "I was third place" What place was Connie?
- 4. What is the perimeter of this shape? Assume all angles are 90 degrees.



- 5. The 3 bears are eating 3 cups of porridge each. Each bear takes 1 hour to eat a cup of porridge. While the bears are eating, Goldilocks comes and takes 1/4 cup out of each porridge bowl every 10 minutes. After 90 minutes, in cups, how much porridge do the bears have left in total?
- 6. Avery and Iris start running at the same time on a circular track that is a quarter mile long. Avery runs at 6 mph, and Iris runs at 10 mph. After 30 minutes, how many times has Iris passed Avery (including at the end of their run)?
- 7. At Burger Prince, a burger costs \$5.00, French fries cost \$3.00, and a soda costs \$1.00. How many different combinations of items can Bill order so that he spends exactly \$10.00?
- 8. Piggy has \$5 made up of quarters, nickels, and dimes. She has 12 quarters, and the number of nickels is twice the number of dimes. How many dimes does Piggy have?
- 9. How many different triangles can you create using sticks that are 1, 2, 3, 4, and 5 inches long, where each triangle is formed by using 3 sticks of different lengths as sides? In a triangle, each side length must be less than the sum of the other 2 side lengths
- 10. Daniel has 100 watermelons. The average weight of the watermelons is 5 kilograms. Then he gets two more watermelons. One has a weight of 203 kilograms and the other has a weight of 317 kilograms. What is the new average weight of Daniel's watermelons?

## Solutions

- 1. 8
- 2.9
- 3. 1 or 1st
- 4. 90
- 5.  $\frac{9}{4}$
- 6.8
- 7.7
- 8. 10
- 9.3
- 10. 10