

# 2010 Orange County Math Circle All-Girls Tournament

## Grade 3 - 4 Target Round

Name: \_\_\_\_\_

School: \_\_\_\_\_

Grade: \_\_\_\_\_

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1. Aley, Betty, Caroline, Dina, and Eleni entered a room together. If all the girls shake hands with each other exactly once, how many handshakes took place?

\_\_\_\_\_ (handshakes)

2. Chandler has \$95. Payton has \$33 less than Chandler but \$14 more than Morgan. How much money does Morgan have?

\_\_\_\_\_ (dollars)

3. Arrange the digits 0, 2, 4, 6, 8 to form the smallest five-digit number. The number cannot start with 0.

\_\_\_\_\_

4.  $\frac{5}{12}$  of the students in a class are boys. The rest are girls. If there are 21 girls in the class, how many boys are there in the class?

\_\_\_\_\_ (boys)

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5. Amy spent 2 hours 40 minutes doing her math homework. If she finished at 6:10 PM, at what time did she start?

\_\_\_\_\_ (PM)

6. Jiyun has three times as many shells as Abigale. If they have 92 shells altogether, how many shells does Jiyun have?

\_\_\_\_\_ (shells)

7. Jackie bought 90 marbles. She gave  $\frac{2}{5}$  of them to her friend and lost  $\frac{1}{6}$  of them. How many marbles does she have left?

\_\_\_\_\_ (marbles)

8. A rectangular piece of paper is 32 cm long and has a perimeter of 98 cm. A square with a perimeter of 36 cm is cut away from it. What is the area of the paper is left?

\_\_\_\_\_ cm<sup>2</sup>