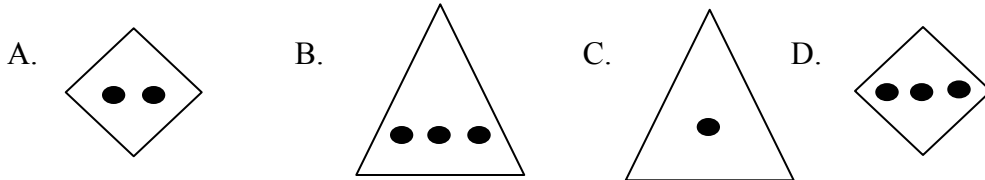
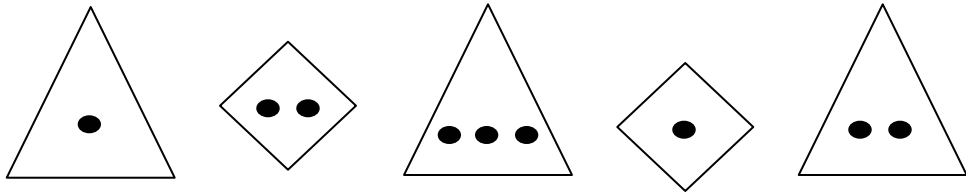


Math 0090 Lab Worksheet #18

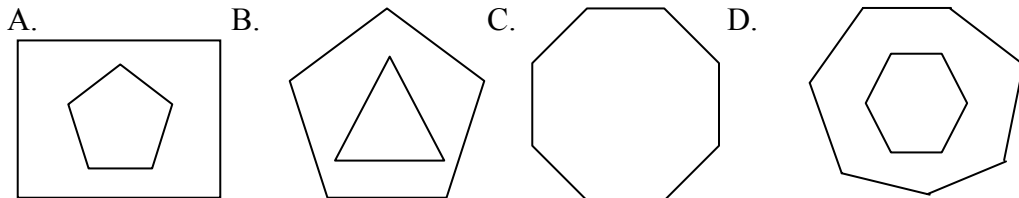
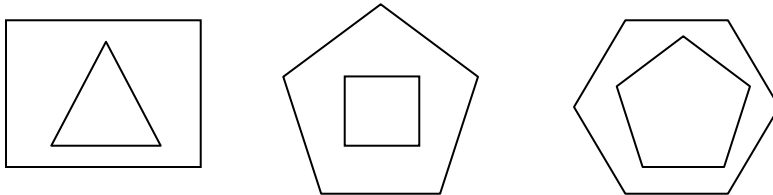
Objective: Solve problems #1 - #10 involving reasoning skills. #11 through #15 are review problems.

1. What is the next number in the sequence 2, 5, 11, 23, _ ?
 - A. 24
 - B. 35
 - C. 47
 - D. 51
2. What is the next number in the sequence $-7, -4, -1, _ ?$
 - A. -3
 - B. -2
 - C. 2
 - D. 4
3. What is the next letter in the sequence C I O _ ?
 - A. S
 - B. X
 - C. T
 - D. U
4. What are the next two letters in the sequence W I S K O M K _ _ ?
 - A. O G
 - B. O M
 - C. G M
 - D. O Q
5. What is the next number in the sequence 284, 280, 140, 136, 68, 64, 32, _ ?
 - A. 8
 - B. 16
 - C. 28
 - D. 30

6. Which figure should come next in the sequence below ?



7. Which figure should come next in the sequence below ?



8. Juan, Jorge, Jesus, and Jaime each participates in exactly one sport in school. One is a football player, one is a basketball player, one is a baseball player, and one runs track. Use the statements below to answer the question that follows.

1. The basketball player and Jorge go fishing together.
2. Jorge and Jaime work out with the football player.
3. The football player and Jesus like to go to the movies together.
4. Jesus rides to school with the basketball player.

The name of the basketball player is

- | | |
|----------|----------|
| A. Juan | B. Jorge |
| C. Jesus | D. Jaime |

9. There are 25 students in a woodworking class. During the class, 13 of the students built a bookshelf, and 11 students built a birdhouse. Five students built both a bookshelf and a birdhouse. How many students in the class did not make either a bookshelf or a birdhouse ?
- A. 5
 - B. 6
 - C. 8
 - D. 20
10. Antonio, Dale, Janet, and Lynn attend the same college. One majors in English, one in business, one in math, and one in Spanish. Use the statements below to answer the question that follows.
- 1. Antonio and Lynn eat lunch with the Spanish major.
 - 2. Dale and Janet study with the business major.
 - 3. Lynn is in the same speech class as the English and business majors.
- What is Lynn's major ?
- A. Business
 - B. English
 - C. Math
 - D. Spanish
11. Find the area of the polygon enclosed by the three lines whose equations are $y = x + 2$, $y = -4$ and $x = 6$
- A. 8 square units
 - B. 32 square units
 - C. 72 square units
 - D. 144 square units

12. A circular swimming pool is 25 ft in diameter and 5 ft 6 in deep. Approximately how many gallons of water will it take to fill the pool to a 5-foot level if there are 7.5 gallons of water in 1 cubic foot of water ?
- A. 600π gallons
 - B. 5860π gallons
 - C. 18400π gallons
 - D. 20000π square units
13. Angela needs an average of 75 on five tests to earn a grade of C in her math course. She has scores of 70, 62, 82, and 78 on her first four tests. What is the lowest score Angela can make on the fifth test and still receive a C in the course?
- A. 75
 - B. 77
 - C. 83
 - D. 93
14. If $f(x) = |2x - 7|$, find $f(2) \cdot f\left(\frac{1}{2}\right)$
- A. 3
 - B. 5
 - C. 18
 - D. 25
15. If $\frac{2}{5}x + 7 = 1$, then what is the value of $10 - 3x$?
- A. -35
 - B. -15
 - C. 17
 - D. 55