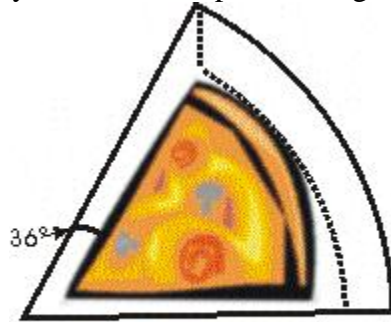


**Mathematics Department**

**Tuesday, March 3<sup>rd</sup>**

**Level 4 question**

1. At the bakery you work at, you must place slices of a circular pie into individual wedge-shaped packages, as shown below. If the angle of the corner of the package is  $36^\circ$ , what is the maximum number of slices that you can cut the pie into to get a perfect fit for each slice?



- A. 4
- B. 6
- C. 8
- D. 10
- E. 12

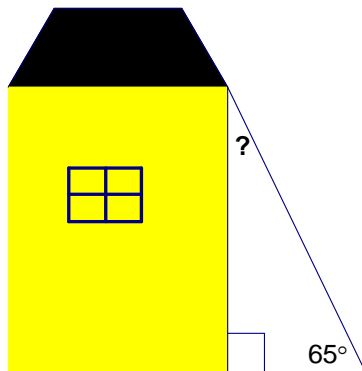
**Answer: D**

**Mathematics Department**

**Thursday, March 5<sup>th</sup>**

**Level 4 question**

2. As an assistant to a telephone repair technician, you must find the measure of the angle between a wire and the wall of a house. The wall forms a  $90^\circ$  angle with the ground. The wire forms a  $65^\circ$  angle with the ground. What is the measure of the angle that the wire forms with the wall of the house?



- A.  $25^\circ$
- B.  $35^\circ$
- C.  $45^\circ$
- D.  $115^\circ$
- E.  $155^\circ$

**Answer: A**

**Mathematics Department**  
**Tuesday, March 10<sup>th</sup>**  
**Level 5 question**

3. As a surveyor, you must find the lengths of the sides of a triangular slab of concrete. You know that the area of the slab is 140 square meters. If the height of the slab is 8 meters, what is the base of the slab?
- A. 17.5 meters
  - B. 35 meters
  - C. 62 meters
  - D. 66 meters
  - E. 70 meters

**Answer: B**

**Mathematics Department**  
**Thursday, March 12<sup>th</sup>**  
**Level 5 question**

4. You must fill a cube-shaped tank with liquid. If each edge of the cube is 36 inches, about how many gallons of liquid will you use?
- A. 6
  - B. 202
  - C. 1,296
  - D. 1,386
  - E. 46,656

**Answer: B**

**Mathematics Department**  
**Tuesday, March 17<sup>th</sup>**  
**Level 6 question**

5. As a truck dispatcher, you must compare the distances and times traveled by three trucks in the company fleet. Truck 19 drove 535 miles in 9.1 hours, Truck 20 drove 881 miles in 13.5 hours, and Truck 22 drove 409 miles in 7.4 hours. What was the approximate speed of the fastest truck?
- A. 20 miles per hour
  - B. 55 miles per hour
  - C. 59 miles per hour
  - D. 60 miles per hour
  - E. 65 miles per hour

**Answer: E**

**Mathematics Department**  
**Thursday, March 19<sup>th</sup>**  
**Level 6 question**

6. In the kitchen you work at, you need to find a container to store the soup stock. One cylindrical container is 18 inches tall and has a diameter of 8 inches. About how many cups of soup stock will the container hold?
- A. 4
  - B. 15
  - C. 63
  - D. 501
  - E. 904

**Answer: C**

**Mathematics Department**  
**Thursday, March 31<sup>st</sup>**  
**Level 4 question**

7. You are testing a circuit at the factory you work for. The load draws 1,800 watts of power and has a voltage of 10 volts. What is the current in amps?
- A. 8.2
  - B. 1,790
  - C. 1,810
  - D. 180
  - E. 18,000

**Answer: D**