

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

Score: \_\_\_\_\_

Section: \_\_\_\_\_

**Directions:** Read and understand the given. Choose the letter that corresponds to the correct answer. Write your solutions and the letters of your answers on a separate sheet of paper.

- Which of the following is an appropriate unit of measure for the volume of a book?  
A.  $\text{mm}^3$       B.  $\text{cm}^3$       C.  $\text{m}^3$       D.  $\text{km}^3$
- Which of the following is an appropriate unit of measure for the amount of space occupied by the planet Mercury?  
A.  $\text{mm}^3$       B.  $\text{cm}^3$       C.  $\text{m}^3$       D.  $\text{km}^3$
- Which of the following is an appropriate unit of measure for the volume of the water an Olympic swimming pool?  
A.  $\text{mm}^3$       B.  $\text{cm}^3$       C.  $\text{m}^3$       D.  $\text{km}^3$
- Which of the following can be the volume of a standard die?



- A.  $8 \text{ cm}^3$       B.  $8 \text{ m}^3$       C.  $8 \text{ ft}^3$       D.  $8 \text{ km}^3$
- Which of the following can be the volume of a shoe box?



- A.  $10 \text{ cm}^3$       B.  $60 \text{ km}^3$       C.  $200 \text{ m}^3$       D.  $6\,000 \text{ cm}^3$

For items 6 and 8, let the volume of Figure A be  $20 \text{ cm}^3$ .



Figure A



Figure B



Figure C

- Which of the following can be the best estimate for Figure B's volume?  
A.  $10 \text{ cm}^3$       B.  $20 \text{ cm}^3$       C.  $40 \text{ cm}^3$       D.  $100 \text{ cm}^3$
- Which of the following can be the best estimate for Figure C's volume?  
A.  $10 \text{ cm}^3$       B.  $20 \text{ cm}^3$       C.  $40 \text{ cm}^3$       D.  $80 \text{ cm}^3$
- An aquarium is in the shape of rectangular prism. Its length, width and height are  $2.9 \text{ m}$ ,  $1.13 \text{ m}$  and  $0.94 \text{ m}$ , respectively. Which of the following is the best estimate for the volume of water that the aquarium can hold?  
A. Less than  $1 \text{ m}^3$       B. Between  $1 \text{ m}^3$  and  $2 \text{ m}^3$   
C. Between  $2 \text{ m}^3$  and  $3 \text{ m}^3$       D. More than  $3 \text{ m}^3$
- A container is in the shape of a cube. The length of the edge of the cube is  $2.1 \text{ m}$ . Which of the following is the best estimate for the volume of the box?  
A.  $2 \text{ m}^3$       B.  $3 \text{ m}^3$       C.  $8 \text{ m}^3$       D.  $21 \text{ m}^3$
- A cabinet is in the shape of rectangular prism. Its length, width and height are  $1.7 \text{ m}$ ,  $2.05 \text{ m}$  and  $0.96 \text{ m}$ . Which of the following is the best estimate for the volume of the cabinet?  
A.  $1 \text{ m}^3$       B.  $2 \text{ m}^3$       C.  $4 \text{ m}^3$       D.  $10 \text{ m}^3$