**Unit 11 Study Guide**

**1. Which statement about quadrilaterals is true?**

A. A square is always a rectangle.

B. A rectangle is never a square.

C. A parallelogram is always a rectangle.

D. A rhombus is always a square.

**2. What is the volume of the figure?**



A. 105 cubic inches

B. 630 cubic inches

C. 108 cubic inches

D. 966 cubic inches

**3. A box in the shape of a rectangular prism has a height of 12 inches (in.) and a volume of 240 cubic inches.**

Which of the following could be the dimensions of the base of the box?

A. 7 in. × 4 in.

B. 3 in. × 6 in.

C. 4 in. × 5 in.

D. 4 in. × 8 in

**4. Which prisms have a volume between 30 and 80 cubic inches (in.)? **

A.  B. C.  D. 

E.  F. 

**5. What is the volume of the box in cubic cm?**

 A. 36 cubic cm B. 41 cubic cm C. 616 cubic cm D. 330 cubic cm

**6. Select all the properties that both squares and rectangles share.**

A. 4 sides

B. right angles

C. opposite, parallel sides

D. acute angles

E. obtuse angles

**7. Which classifications of a triangle are correct?**

**Both words in the description must apply.**

A. scalene, right

B. right, obtuse

C. equilateral, acute

D. isosceles, scalene

E. equilateral, right

F. isosceles, equilateral

G. scalene, obtuse

**8. What would the volume be if you added another layer to the top of the prism?**



A. 45 (units) ³

B. 48 (units) ³

C. 28 (units) ³

D. 36 (units) ³

**9. A rectangular prism is 8 feet long and 6 feet wide. If the volume is 336 cubic feet. What is the height of the prism?**

A. 5 feet

B. 6 feet

C. 7 feet

D. 8 feet

**10. Melanie filled two boxes with centimeter cubes as shown below.**

** **

How many **centimeter** cubes were used to fill the box with the greatest volume?

A. 140

B. 240

C. 320

D. 144