

**Geometry**

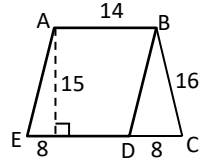
**Unit Three – G.GMD. 1 Review (HW5)**

For each multiple choice question, please circle your answer.

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

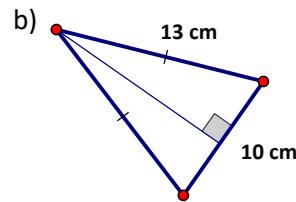
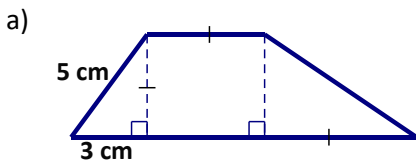
Date: \_\_\_\_\_ Period: \_\_\_\_\_

- The perimeter of a rectangle is 54 cm and the base length is twice the height. What is the area?  
 a.  $108 \text{ cm}^2$                       b.  $154 \text{ cm}^2$                       c.  $162 \text{ cm}^2$                       d.  $324 \text{ cm}^2$
- The perimeter of a rectangle is 40 cm. If the width is 8 cm, what is the length?  
 a. 12cm                                  b. 16 cm                                  c. 32 cm                                  d. 48 cm
- What is the area, in square units, of parallelogram ABDE?  
 a. 120                                      b. 136                                      c. 210                                      d. 240
- What is the area, in square units, of  $\triangle BCD$ ?  
 a. 60                                        b. 128                                        c. 120                                        d. cannot be determined
- What is the area, in square units, of trapezoid ABCE?  
 a. 240                                        b. 270                                        c. 352                                        d. 420
- The perimeter of ABCE is:  
 a. 63 units                                  b. 69 units                                  c. 75 units                                  d. cannot be determined
- What is the measure of the base of a triangle with height of 20 cm and an area of  $100 \text{ cm}^2$ ?  
 a. 5 cm                                        b. 6 cm                                        c. 8 cm                                        d. 10 cm
- To the nearest tenth, the circumference of a circle with a radius of 3 cm is:  
 a. 9.4 cm                                      b. 18.8 cm                                      c. 28.3 cm                                      d. 31.4 cm
- Given the following information about circles, determine the missing information.  
 a)  $C = 16 \text{ cm}$                                   b)  $r = 5\sqrt{2} \text{ cm}$                                   c)  $r = \pi \text{ cm}$                                   d)  $C = 10\pi \text{ cm}$



$d =$  \_\_\_\_\_ (E)                       $d =$  \_\_\_\_\_                       $C =$  \_\_\_\_\_ (E)                       $r =$  \_\_\_\_\_

- Find the area and perimeter of each of the shapes below. Give answers marked with an (E) as exact. Round all other answers to one decimal place.

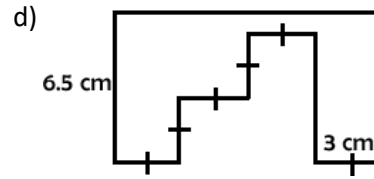
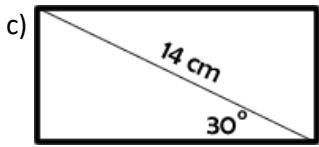


Area = \_\_\_\_\_ (E)

Area = \_\_\_\_\_ (E)

Perimeter = \_\_\_\_\_ (E)

Perimeter = \_\_\_\_\_ (E)



Area = \_\_\_\_\_ (E)

Area = \_\_\_\_\_ (E)

Perimeter = \_\_\_\_\_ (E)

Perimeter = \_\_\_\_\_ (E)

11. Find the missing measurement using the information provided. Leave answers marked with an (E) exact and round other answers to one decimal place.

a) A nonagon with a radius of 6 cm. Find the apothem.

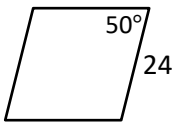
b) A hexagon with a perimeter of 120 in. Find the apothem. (E)

c) A heptagon with a side length of 16 cm. Find the radius.

d) A pentagon with a radius of 10 cm. Find the side length.

12. Find the area of the following figures.

a) The figure below is a rhombus.



b) A heptagon has a side length of 10 cm.

c) Find the area of a hexagon that has a radius of 20 in.

d) Find the area of the shaded sector.

