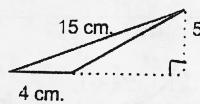
## Math 6 Ch 9 Test Study Guide

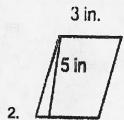
Name Key

Find the area for numbers 1-3

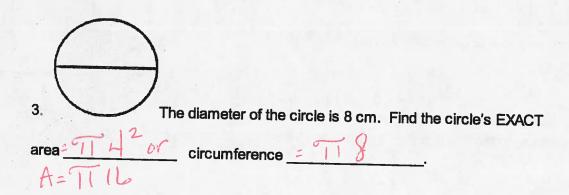


5 cm.  $A = \frac{1}{2} \times 4 \times 5$ ....  $A = 10 \text{ cm}^2$ 

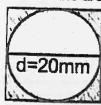
1.



A= 3\*5 A= 15 in 2

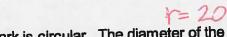


4. Find the area of the shaded region.



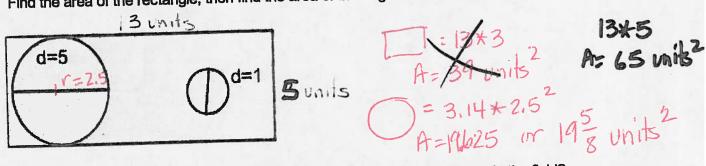
1=20\*20 A=400 mm<sup>2</sup> = 3,14\*10<sup>2</sup> A=3,14\*100 A=314 mm<sup>2</sup>

400 -314 86 mm<sup>2</sup> difference



5. A walkway in a park is circular. The diameter of the walk is 40 meters. If you walk completely around the walkway, how far have you walked? = 40 + 314 = 125,6 m. Half way around? \_\_\_\_\_62.8 m.

6. Find the area of the rectangle, then find the area of the largest circle in the rectangle.



7. If a square field is enclosed by 48 feet of fence, how many square feet are in the field?



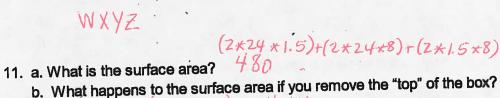
8. Can two squares have the same area but different perimeters? Give an example.

9. + 10.

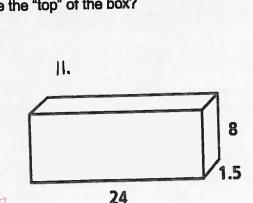
3.1

9. Find the surface area of the prism.

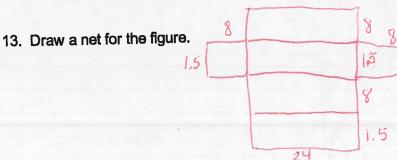
9. Find the surface area of the prism. 
$$(2*3.3*3.1) + (2*3.3*3.2) + (2*3.2*3.1) = 61.42$$
10. What other face has the same area as rectangle ABCD?



b. What happens to the surface area if you remove the "top" of the box?  $(480)-(24 \pm 1.5)=444$ 



12. What is the volume?



## **Extra Quiz Questions:**

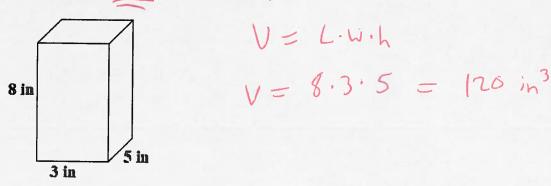
1. A golf hole has a diameter of 4.25 inches. Find the area and the circumference of the hole?

A= 
$$\Pi \cdot r^2 = \Pi \cdot 2.125^2 = \Pi \cdot 2.125 \cdot 2.125 = 14.19 \text{ in}^2$$

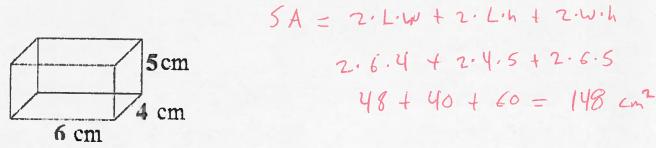
C=  $\Pi \cdot d = \Pi \cdot 4.25 = 13.35 \text{ in}$ 

V= 13.35 in

2. Find the volume of the rectangular prism. Show all work.



3. Find the surface area of the rectangular prism. Show your work.



4. Find the area of the shaded region. Show your work.

