Unit 4:
Lesson 04   ***More area, perimeter, and percent problems**

Assignment:

1. A certain triangle has sides $z + 1$, $z + 2$, and $z + 8$. What is z if the perimeter is 44?

2. If the area of a semicircle is 46π, what is its radius?

3. 146 is what percent of 192?

4. What is 1.1% of .016?

5. The sides of a rectangle are all exactly equal and its area is 144. How long are the sides?

6. Joe receives a commission for selling used cars. If he was paid $65 for the sale of an old clunker, what was his commission rate if the selling price of the car was $475?

7. The length of one base of a trapezoid is 7 inches while its area is 57 inches^2. Find the length of the other base if the height is 6 inches. (The area of a trapezoid is .5(b1 + b2)h.)

*8. The length of a rectangle is 8 and its width is 2 less than its length. What percentage of the area of the rectangle is the width?

*9. Find the length of a side of a cube if its total surface area is 54 cm^2.

10. If the circumference of a circle is 110 inches, what is the diameter?

11. If the Bearcats won 75% of their games (they won 15 games) over the past two years, what was the total number of games they played in those two years?

12. The area of a triangle is 182 cm^2. What must its height be if its base is 42 cm?

13. What is the radius of a circle whose area is 19?

14. What is 125% of 536?

15. Convert 117.20% to a decimal fraction.	16. Convert 126/179 to a percent.
17. 11.2 is what percent of 146.9?	18. What is .18% of 4000?