Math-2 Name_____ ID: 1

SM2 HW #1-3 (application problems)

Date_____ Period____

1) The width of a rectangle is 5 feet. The length is 3 times the width. What is the perimeter of the rectangle?

2) The perimeter of a rectangle is 45 feet. The length is 12 feet. What is the width?

3) The area of a rectangle is 224 square meters. If the width is 40 feet, what is the perimeter?

4) The area of a rectangle is 300 square meters. If the width is 12.5 meters, what is the perimeter?

5) The perimeter of a rectangal is given by the following formula:
$P = 2W + 2L$

Solve for W

6) The area of a trapezoid is given by the following formula:
$A = \frac{1}{2}h\left(b_1 + b_2\right)$

Solve for h

7) The area of a trapezoid is given by the following formula:
$A = \frac{1}{2}h\left(b_1 + b_2\right)$

Solve for b_1

8) The radius of a circle is 12π meters. What is the circumference?

9) The circumference of a circle is 26π meters. What is the radius?

10) The area of a trapezoid is 255 square feet. If one base is 9 feet and other base is twice as long, what is the height?

11) The area of a trapezoid is 300 square feet. If the height is 12 feet and one base is 14 feet, what is the other base?

12) If you drive at 60 miles per hour for 2.7 hours, how far did you go?

13) If your 600 mile trip took 9 hours, how fast did you go?

14) If you drove 650 miles and your speed was 50 miles per hour, how long was your trip?

Solve each equation ("one-step-rewrite")

15) $84 = -6(4 + 3b)$

16) $-119 = -5(7x + 7) - 7x$