

Name _____ Date _____

Power Word Problem - Worksheet 1

Do the following:

1. Write an expression for the volume of a box that has a $5p$ width, $4p$ length and $2p$ height.
2. $8p$ and $7p$ are the height and width of box A, and $5p$ and $8p$ are the length and width of box B. Write the expression for box A - box B.
3. A rectangular garden is twice as long as it is wide. A small concrete track surrounds the garden. The track is a constant 3 feet wide and has an area of 154 square feet. Find the dimensions of the garden.
4. The cost of renting a car is \$40 per day plus \$0.03 per mile. If a car is rented for d days and is driven m miles a day, represent the cost, C , in terms of d and m .
5. The cost of renting a room is \$50 per day plus \$0.05 per person. If a room is rented for d days and includes m persons, represent the cost, C , in terms of d and m .
6. Write an expression for the volume of a box that has a $6p$ width, $10p$ length and $4p$ height.
7. A rectangular board is twice as long as it is wide. A small border surrounds the board. The border is a constant 2 feet wide and has an area of 120 square feet. Find the dimensions of the board.
8. $4p$ and $8p$ are the height and width of rectangle A, and $3p$ and $6p$ are the length and width of rectangle B. Write the expression for rectangle A - rectangle B.
9. Write an expression for the volume of a jewelry box that has a $5p$ width, $4p$ length and $2p$ height.
10. The cost of renting a dress is \$60 per day plus \$0.04 per person. If a dress is rented for d days and includes m persons a day, represent the cost, C , in terms of d and m .