

Word Problem Review – Priority Standard

Your equation may differ. If not one of the options given please ask about it

Your only requirement is to write each situation as an equation. You do not need to solve the equations.

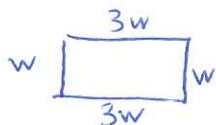
1. A photographer that takes senior pictures charges a sitting fee of \$150, and an additional amount for every pose chosen for the package. If the family pays \$415 for their senior photo session and received 12 poses, how much was each pose?

$$150 + (12)(x) = 415$$

$$150 + 12x = 415 \quad \text{or} \quad 12x = 415 - 150 \quad \text{or} \quad \frac{415 - 150}{12} = x$$

$$12x = 265$$

2. The length of a rectangle is 3 times the width. What is the width of the rectangle if the perimeter is 34?

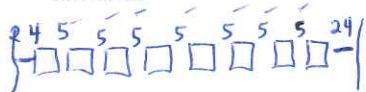


$$3w + w + 3w + w = 34 \quad \text{or} \quad 8w = 34$$

3. A dog breeder raises two kinds of dogs. At birth, the average puppy of breed A weighs 14.8 ounces and gains weight at a rate of 0.5 ounce per week. Breed B puppies are smaller at birth, weighing about 11.6 ounces. But, they gain weight faster, at 0.9 ounces per week. How many weeks will it be before the puppies are the same weight?

$$14.8 + 0.5x = 11.6 + 0.9x$$

4. In a section of a theater there are 8 seats in a row. There are 5 inches between seats and the stairs at either end of the rows are 24 inches wide. How wide are the seats (in inches) if the whole width of this section of the theater is 240 inches?

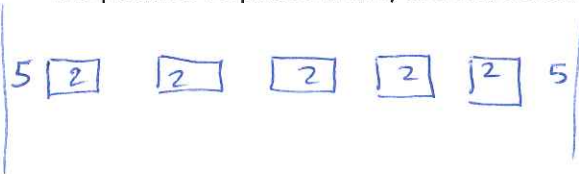


$$240 = 7(5) + 8x + 2(24) \quad \text{or} \quad 240 - 83 = 8x$$

$$240 = 35 + 8x + 48 \quad \text{or} \quad \frac{240 - 83}{8} = x$$

$$240 = 83 + 8x$$

5. A homeowner wants to put five pictures up on a 30-foot wall (horizontally arranged across the wall). If the pictures are each 2 feet wide and the closest pictures to the ends are 5 feet from either edge of the wall, how far apart should the pictures be placed if they are to be evenly spaced?



$$30 = 2(5) + 2(5) + 4x \quad \text{or} \quad \frac{30 - 20}{4} = x$$

$$30 = 20 + 4x$$

6. Bob owns two cars that are from consecutive years. If sum of the ages of the two cars is 17, how old is Bob's oldest car?

$$x + (x+1) = 17$$

7. Three consecutive numbers have a sum of 48. What are the numbers?

$$x + (x+1) + (x+2) = 48$$

8. If an exercise studio charges a membership fee and \$5 per class, what is the membership fee if attending 12 classes costs \$95?

$$5(12) + x = 95$$