

## Write equations with variables

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### Grade 5 Math Word Problems Worksheet

1. The toy store owner received 4 boxes of stuffed toys and 2 doll houses from the supplier. Each box contains  $r$  identical teddy bears. He noted that they received a total of 56 teddy bears. Find  $r$ .
2. Joel has a collection of  $b$  superhero action figures and 5 decks of game cards.  $\frac{3}{10}$  of the action figures were given to him and the other action figures were bought by him. If 9 of them were given to him, find  $b$ .
3. The toy store is offering a discount of  $\$n$  after buying toys worth over \$120. Vivien bought 3 identical doll houses for \$44 each and paid the discounted price of \$124. Find  $n$ .



4. A container holds 1,800 ml of water. Ken poured 855 ml of water into each of 2 water guns and  $d$  ml of water was left in the container. Find  $d$ .
  
  
  
  
  
  
  
  
  
  
5. The toy car supplier has released their limited-edition model 567 remote control toy cars this month worldwide. 398 remote control toy cars were sold, 92 were put on hold, and  $y$  remote control toy cars are still available. Find  $y$ .
  
  
  
  
  
  
  
  
  
  
6. In an online game, Evan garnered 3 points in level 1 and 5 points in level 2. Each point in level 1 is worth 2 points, and each point in level 2 is worth  $v$  points. He got a total of 21 points in that game. Find  $v$ .

## Answers

1.  $4r = 56$   
 $r = 14$

2.  $\frac{3}{10}b = 9$   
 $\frac{3b}{10} = 9$   
 $3b = 90$   
 $b = 30$

3.  $3(44) - n = 132$   
 $132 - n = 124$   
 $n = 8$

4.  $855(2) + d = 1800$   
 $1,710 + d = 1,800$   
 $d = 90$

5.  $398 + 92 + y = 567$   
 $490 + y = 567$   
 $y = 77$

6.  $3(2) + 5v = 21$   
 $6 + 5v = 21$   
 $5v = 21 - 6$   
 $5v = 15$   
 $v = 3$