

## Write equations with variables

---

### Grade 5 Math Word Problems Worksheet

1. Vilma bought a portable radio for \$22 and 4 sets of headphones for  $\$d$  each in an electronic shop yesterday. She paid a total of \$70. Solve for  $d$ .
  
2. Myrna used her 2 year-warranty cards for repairs to the 3 defective laptops from her order of 18 laptops. The other  $m$  laptops are working properly. Solve for  $m$ .
  
3. The original price of the portable speaker is \$46 and the portable fan is \$32. Carina paid \$38 for portable speakers after getting a discount of  $k$ . Solve for  $k$ .



4. The store manager, Michelle, received a delivery of 3 boxes of memory sticks and 2 boxes of selfie sticks from the supplier. Each box contains  $v$  memory sticks. She found that they received 360 memory sticks in all. Solve for  $v$ .
5. There were  $p$  digital cameras displayed in the gadget store.  $\frac{3}{5}$  of them were waterproof digital cameras and the other 8 cameras were non-waterproof. Solve for  $p$ .
6. A touch screen cellphone weighs 70 grams while a tablet weighs 3 times as much as the touchscreen cell phones. Honey bought  $b$  tablets weighing a total of 630 grams. Solve for  $b$ .

## Answers

1.  $22 + 4d = 70$   
 $4d = 70 - 22$   
 $4d = 48$   
 $d = 12$

2.  $m + 3 = 18$   
 $m = 15$

3.  $46 - k = 38$   
 $k = 8$

4.  $3v = 360$   
 $v = 120$

5.  $1 - \frac{3}{5} = \frac{2}{5}$   
 $\frac{2p}{5} = 8$   
 $2p = 40$   
 $p = 20$

6.  $3(70) = 210$   
 $210b = 630$   
 $b = 3$