

## Write equations with variables

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### Grade 5 Math Word Problems Worksheet

1. The train was scheduled to leave at 50 minutes after noon but due to maintenance, the train left  $a$  minutes later than the scheduled time. At the end, the train left 85 minutes after noon. Find  $a$ .
  
2. A flight has 194 seats. After  $n$  tickets are sold for this flight, 38 seats are available. Find  $n$ .
  
3. Each passenger can bring 2 pieces of luggage with a weight of up to  $d$  kilograms. The maximum weight each passenger can carry is 70 kilograms. Find  $d$ .



4. A train has  $e$  cars and can take 464 passengers. Each car can take up to 116 passengers. Find  $e$ .
5. There are 280 passengers taking a bus route everyday. In  $b$  days, there are total of 1,400 passengers. Find  $b$ .
6. To encourage people to take the bus, the bus company offers a round trip ticket. One-way bus fare is  $\$f$  and a round-trip ticket cost  $\$13$ , which gives passengers a discount of  $\$3$ . Find  $f$ .

## Answers

1.  $a + 50 = 85$   
 $a = 35$

2.  $194 - n = 38$   
 $n = 156$

3.  $2d = 70$   
 $d = 35$

4.  $\frac{464}{e} = 116$   
 $116e = 464$   
 $e = 4$

5.  $280d = 1400$   
 $d = 5$

6.  $2f - 3 = 13$   
 $2f = 16$   
 $f = 8$