



Write equations with variables

Grade 5 Math Word Problems Worksheet

1. Josh sent out invitations to 16 friends for his birthday party. x friends replied and he is waiting for the other 7 friends to reply. Find x .
2. Ben bought 4 packs of balloons for his child's birthday. Each pack of balloons comes with h balloons. There are 24 balloons in total. Find h .
3. Sophia ordered s pizzas for 24 guests at a party. Each guest will have $\frac{1}{6}$ of a pizza. Find s .





4. There are n guests at Owen's birthday party. $\frac{2}{3}$ of the guests at his party are boys. There are 12 boys at the party. Find n .
5. Ashley bought 2 boxes of small toys of party favors for her daughter's birthday party. The bigger box contains t toys and the smaller box contains 12 toys. She bought a total of 28 toys. Find t .
6. Liam rented a hall for a party. The party hall charges \$200 for the hall and \$ k for each person attending the party. There are 24 people attending the party, and Liam paid the party hall \$560. Find k .



Answers

1. $16 - x = 7$
 $x = 9$

2. $4h = 24$
 $h = 6$

3. $\frac{s}{24} = \frac{1}{6}$
 $s = \frac{1}{6} \times 24$
 $s = 4$

4. $\frac{2n}{3} = 12$
 $2n = 36$
 $n = 18$

5. $t + 12 = 28$
 $t = 16$

6. $200 + 24k = 560$
 $24k = 360$
 $k = 15$