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

$$
s=\frac{1}{6} \times 24
$$

$$
s=4
$$

4. $\frac{2 n}{3}=12$
$2 n=36$
$n=18$
5. $t+12=28$
$t=16$
6. $200+24 k=560$ $24 k=360$
$k=15$
