

Writing expressions with variables

Grade 5 Word Problems Worksheet

1. In a zoo, there were 36 exhibits, but k exhibits were closed. Write the expression for the number of exhibits that were open.

2. The zoo is open for 9 hours on weekdays. On weekends, the zoo is open for r more hours. Write the expression for the number of hours the zoo opens on weekends.

3. In the lion exhibit in the zoo, there are n lions. $\frac{3}{5}$ of the lions are female. Write the expression for the number of female lions.





4.	The zoo needs to hire b staff members for each exhibit. Write
	the expression for the number of staff members they need to
	hire for 20 exhibits.

5. There were e visitors at the zoo over a 3-day long weekend. Write the expression for the number of visitors that visited each day.

6. Oliver went to the zoo with 5 other friends. They have a coupon for \$10 off of admission for groups of 5 or more. The admission for each person is \$ d. Write the expression for the amount each of them needs to pay after the discount.



Answers

- 1. 36 k
- 2. 9 + r
- 3. $\frac{3n}{5}$
- 4. 20*b*
- 5. $\frac{e}{3}$
- 6. $\frac{6d-10}{6}$