



**NAME** \_\_\_\_\_

**Directions: Answer the following questions using the information provided. Show your work. If additional space is needed, please attach a separate piece of paper and correctly identify the problem it correlates to. If you are creating a table or graph, be sure to include titles and labels.**

The black-tailed prairie dog is a true ground squirrel found on prairies and semi-desert of the northwestern states in the US. They are very social animals and live in family groups. Their diet in the wild is primarily short grasses, broadleaved herbs, roots, seeds, and insects.

At the Minnesota Zoo, this is the menu enjoyed by the colony of prairie dogs:

1 kg primate chow

1 kg Labblox

2-3 carrots, sliced

(serves 15 prairie dogs, fed once daily)

1) Imagine you are the zookeeper for this exhibit. Estimate how much food you would need to feed 30 prairie dogs for one day.

**2 KG PRIMATE CHOW; 2 KG LABBLOX; 4-6 CARROTS, SLICED**

2) If you wanted to know the exact menu amounts needed to feed 30 prairie dogs,

a) Which operations (+, -, x, or /) could you use to solve the problem? \_\_\_\_\_

**+ (ADDING) AND X (MULTIPLICATION)**

b) Using those operations, solve the problem. Show all your work.

**1 KG PRIMATE CHOW + 1 KG PRIMATE CHOW = 2 KG PRIMATE CHOW**

**1 KG LABBLOX + 1 KG LABBLOX = 2 KG LABBLOX**

**2 - 3 CARROTS + 2-3 CARROTS = 4-6 CARROTS**

**1 KG PRIMATE CHOW X 2 = 2 KG OF PRIMATE CHOW**

**1 KG LABBLOX X 2 = 2 KG OF LABBLOX**

**2 - 3 CARROTS X 2 = 4-6 CARROTS**

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c) How do you know the answers are correct? \_\_\_\_\_

**FOR ANOTHER CHECK ON ACCURACY, USE A CALCULATOR TO DOUBLE CHECK YOUR ANSWERS.**

3) As the zookeeper, estimate and solve the amount of food it would take to feed the original 15 prairie dogs for:

a) a week

**1 KG PRIMATE CHOW X 7 = 7 KG**  
**1 KG LABBLOX X 7 = 7 KG**  
**2-3 CARROTS, SLICED X 7 = 14-21 CARROTS**

b) the month of October

**1 KG PRIMATE CHOW X 31 = 31 KG**  
**1 KG LABBLOX X 31 = 31 KG**  
**2-3 CARROTS, SLICED X 31 = 62 - 93 CARROTS**

c) a year

**1 KG PRIMATE CHOW X 356 = 356 KG**  
**1 KG LABBLOX X 356 = 356 KG**  
**2-3 CARROTS, SLICED X 356 = 712 - 1068 CARROTS**

d) Design a chart to show your answers from problem 3.

**DESIGNS WILL VARY.**