

5.NBT.B.5 Estimating Products (Data and Word Problems)

Answer Key

5.NBT.B.5: Fluently multiply multi-digit whole numbers using the standard algorithm.

1. An elephant can eat up to 300 pounds of food in a single day. About how much food can an elephant eat in 85 days? About how much food can an elephant eat in 298 days?

Answer:
27,000 pounds; 90,000 pounds

2. On a zoo, a lion eats 592 pounds of meat per day. About how much meat does the lion consume in 180 days? About how much meat does the lion consume in 9 months?

Answer:
120,000 pounds;
 $600 \times 9 \times 30 = 162,000$ pounds

3. A call center company receives 5,789,321 calls every month. About how many calls does the company receive in 3 months?

Answer:
18,000,000 calls

4. Use the data in the table to answer the questions below.

- a. Which flock will weigh more: 160 Southern Cassowaries or 80 Ostriches?
- b. A ship that carries animals can carry about 20,000,000 grams of weight. Is it big enough to carry 290 Emus?
- c. Can the same ship carry 110 Emperor Penguins and 180 Greater Rheas?

Heaviest Birds

Bird	Weight (g)
Ostrich	90,000
Southern Cassowary	75,000
Emu	60,000
Emperor Penguin	45,000
Greater Rhea	27,000

Answers:

- a. 160 Southern Cassowaries b. Yes c. Yes

5. There were 2,837,193 people who bought a cellular phone worldwide in 2015. If the number of people who buy cellular phones stays the same, about how many people will buy cellular phones in the next 70 years?

- A. 140,000,000 C. 21,000,000
B. 210,000,000 D. 280,000,000

Answer:
B. 210,000,000

6. An albatross weighs around 9,200 grams. Which is the best estimate for the total weight of 870 albatrosses?

- A. 8,100,000 grams C. 7,200,000 grams
B. 6,400,000 grams D. 5,000,000 grams

Answer:
A. 8,100,000 grams