



1 The Spark Zoo only has two-legged birds and four-legged mammals. On one visit to the zoo, Benny counted 200 heads and 522 legs. How many of the animals were two-legged birds?

(A) 61 (B) 122. (C) 139 (D) 150 (E) 161

2 A group of children on bicycles and tricycles rode past Casey's house. Casey counted 7 children and 19 wheels. How many tricycles were there?



3 Abby has a collection of penguin and polar bear toy animals. She counts 274 legs. There are 26 more penguins than polar bears. How many of each does she have?

4 Ben collects two-legged animal figures. Casey collects four-legged animal figures and has 10 more figures than Ben. They have a total of 220 legs in their collections. How many figures does Casey have?

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5 The farm has 100 chickens and rabbits altogether. There are a total of 260 feet. How many chickens are there?

6 Abby spent \$10 to buy 35 stamps, some costing 20 cents and some 50 cents. How many of each type did she buy?

7 An octopus has 8 tentacles and 1 head. A jellyfish has 20 tentacles and no head. A turtle has 4 legs and 1 head. The Spark Aquarium only keeps octopi, jellyfish, and turtles. The Spark Aquarium has 17 heads, 196 tentacles, and 20 legs in total. How many animals are there?

8 Spark Farm has three types of inhabitants: humans, horses, and spiders. Humans and horses are mammals. Humans have 2 legs each, and horses have 4 legs each. Spiders have 8 legs each and are not mammals. If the number of human legs, horse legs, and spider legs are all equal, what is the ratio of mammal inhabitants to total inhabitants? Express your answer as a common fraction.

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