Name : Class : Date :

Exercise 1 : Guess & check (Question)

Question 1
In a farm, there were 30 goats and chickens.
Given that they had a total of 84 legs altogether, how many goats were there?

Clue (if you would like to use method 1 – using a table):

Number of goats	Total goat legs	Number of chickens	Total chicken legs	Total goat & chicken legs	Check
15	15 x 4 = 60	15	15 x 2 = 30	60 + 30 = 90	X
14		16			

Hint : Why we reduce the number of goats but not chickens?
It is because we want to reduce the total legs from 90 to 84. To reduce the number of total legs, we need to reduce the number of animal with more legs.

Question 2

At a park, there were 60 bicycles and tricycles.
Given that there were 147 wheels altogether, how many tricycles were there?

Clue (if you would like to use method 2 – assumption method):

1) We assume all 60 are bicycles
(We must choose the type of item with **lesser** wheels)

60 bicycles x 2 wheels = 120 wheels

2) Find the number of extra wheels left

3) Give 1 extra wheel to some of the 60 bicycles to be "upgraded" to tricycles

Question 3

At a restaurant, there were 90 3-legged stools and 4-legged stools.
Given that there were 310 legs altogether, how many 3-legged stools were there?

Question 4

A In a farm, there were 70 cows and chickens.
Given that they had a total of 214 legs altogether, how many cows were there?

Question 5

At a car park, there were 60 cars and motorcycles.
Given that there were 192 wheels altogether, how many cars were there?

Answer :

1) 12 goats 2) 27 tricycles 3) 50 stools 4) 37 cows 5) 36 cars