**Fiji Mathematics Team Competition– National Final**

**Class 6 - 2013**

C6/1 72 ÷ ∆ = 36 ÷ 4

What is ∆?

C6/2 Robert’s Pokemon card collection contains 9135 cards, including 289 holographic

ones. Robert gives away 568of his non-holographic cards. How many non-holographic cards does he have now?

C6/3 In an auditorium, there are 6 rows of lights. Each row has 7 lights in it. If every light

switch in the auditorium controls exactly three lights, then how many light switches are in the auditorium?

C6/4 Four people can sit at a square table. For the school party the students put

together 10 square tables in order to make one long table. How many people could sit at this longtable?

C6/5 Gita, Irene, Vikashni and Kate want to be in one photo together. Kate and Gita are best friends and they want to stand next to each other. Irene wants to stand next to Gita because she likes her. In how many possible ways can they arrange for the photo?

C6/6 In the following multiplication, what is the asterisked digit which makes it correct?

3 \* 4

X 5

1 6 70

C6/7 Margaret **cycled** at a steady rate to school and **walked** home at a different steady rate. Her total travel time was 25 minutes. If Margaret walked both ways, her total travel time would be 40 minutes. What would be the total travel time if Margaret cycled both ways?

C6/8 Benjamin takes a strip of thin wire 48 cm long and bends it to form a rectangle. The

Two ends of the wire neatly join. If Benjamin’s rectangle is 8 cm wide, what is its length?

C6/9 There are 10 pupils in a dance class. Their teacher has 80 jelly beans. After she gives the same number of jelly beans to each of the girls in the class, there are 3 jelly beans left over. How many boys are there in the class?

C6/10 How many of the small cubes fit exactly into the big cube?



C6/11 I was wandering around the house at 12 hours and 12 minutes before noon. What

time was I wandering around at?

C6/12 Rihal cut a paper in the shape of a square with perimeter 20 cm into two

rectangles. The perimeter of one rectangle was 14 cm. What was the perimeter of the second rectangle?

C6/13 I threw 9 coins into the air. If twice as many coins landed heads up as landed tails up, how many coins landed heads up?

C6/14 There are a total of seven bicycles and tricycles in the shop window. They have a

total of 19 wheels. How many bicycles are there?

C6/15 Matt is sitting by a mosquito-infested pond and is being ruthlessly attacked. He

can kill 12 mosquitoes per minute, but that is only one-third of the mosquitoes

that are attacking him each minute. If every mosquito that attacks Matt without

getting killed leaves an itchy bite, how many itchy bites will Matt have after 5

minutes?

C6/16 If the sum of 9 consecutive numbers is 135, what is the smallest of these numbers?

C6/17 A wooden cube, 2 cm long on each side, has a mass of 100 grams. Another cube of the

same wood is 6 cm long on each side. What is its mass?

C6/18 There are 35 students in Class 6. 18 students have a dog and 24 have a cat,

while 6 have no pets. How many of the students have a dog and a cat?

C6/19 In a banana eating competition a competitor ate 90 bananas in 4 hours. Each hour he

ate 5 less bananas than in the previous hour. How many bananas did he eat in the last

hour?

C6/20 To be prepared, Tema wants to carry 10 pencils with her at all times during

school. Everyhour, she gives one pencil to a friend and loses one pencil. If school is 8 hours long, at least how many pencils must Tema bring to school to remain prepared?

Tie Breaker:

C6/21 I’m thinking of a number. When I multiply it by 5, the product is 0. When I multiply the number by 6 instead of by 5 what is the product?

C6/22 A bakery lowered its price for cookies from 25 cents each to 20 cents each. For $4,

how many more cookies could you buy now than before?