**Fiji Mathematics Team Competition– ZONE**

**YEAR 6- 2017**

Y6/1 There are total of 480 mangoes on a mango tree. One third of the mangoes are ripe and the rest is unripe. How many mangoes are ripe?

Y6/2 You are offered two plans for text messages. Plan A offers unlimited texting for $20 monthly. Plan B charges a fee of $5 monthly plus an additional charge of 5 cents for each text message. For the monthly charges to be exactly same, How many text messages would a Plan B user need to send?

Y6/3 How many two digit numbers have digits that add up to 10?

Y6/4 How many even positive integers less than 2017 leave no reminder when divided by 5?

Y6/5 Write all composite numbers between 11 and 16?

Y6/6 The number 123456789 is multiplied by 1001. What is the sum of the digits in the result?

Y6/7 What is the value of ?

Y6/8 Four people can sit at a square table. For the team party the players put together 6 square tables in order to make one long table. How many people could sit at this long table?

Y6/9 If one-third of a number is 9, then 8 times that number must be?

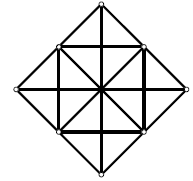
Y6/10 What is the next number in the list

Y6/11 When I half my age, in years, and then add 14 years, the result is 32 years.

How old am I in years?

Y6/12 Mama’s large pizza consists of 12 pieces of pizza. If one third of this large pizza is eaten by Tom and from the remaining, quarter is eaten by Anna. How many pieces are altogether eaten by Tom and Anna?

Y6/13 How many triangles of all sizes are there in the following diagram?



Y6/14 Ben, Emily and Sandy together spent $28, of which half was spent by Ben and one seventh was spent by Emily. What fraction of the money did Sandy spend?

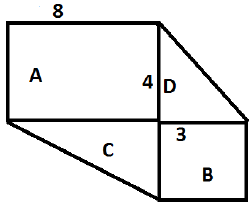
Y6/15 Here are the number of tries your friends took to get a strike when they when bowling:

1 2 6 6 4 3 5 5 2 6 3

What’s the median number of tries?

Y6/16 Subtract (Give answer in improper fraction)

Y6/17 The diagram shows a 3 by 3 square, a 4 by 8 rectangle and two right triangles. The area of the rectangle is equal to A, the area of the square is equal to B and the areas of the two right triangles are equal to C and D. Then the fraction is equal to



Y6/18 The volume of the cube is 125 cubic centimeter? What will be the total surface area of this cube?

Y6/19 In the following multiplication, what is the asterisked(\*) digit which makes it correct?

\* 28

X 6

2568

Y6/20 A vegetable garden is planted with 96 cabbages and 108 radishes. Each row contains only cabbages or only radishes. If each row must have the same number of flowers, what is the smallest possible number of rows in the garden?

Tie Breaker:

Y6/21 In the village of wonderland, most children spend one-third of the day sleeping, one-quarter of the day at school and just one-twelfth eating. How much time in hours is left for other activities?

Y6/22 How many seconds are there in 3 minutes?