**Fiji Mathematics Team Competition – Zones**

**FORM 1/CLASS 7/YEAR 7 – 2016**

F1/1 Six and a half times a number equals one hundred and four. What number is it?

F1/2 Desks are to be numbered from 1 to 125. How many times would the digit 2 be used?

F1/3 Write an algebraic expression of 8 less than twice a number?

F1/4 Nilly’s credit card has interest added every month. She pay $100 each month. Although she pays this amount, and it is taken from the total as every month $5 interest is being added. With an initial balance of $1 500, what will be her balance after 8 months?

F1/5 Benny’s father is 30 years old. He is three times Benny’s age and eighteen years older than Benny’s brother. In how many years will the sum of Benny’s age and his brother’s age equal their father’s age?

F1/6 At Zonti Discount Store the Product Placement Department has a major problem with the placement of the latest range of Zonti’s Washing Machines. The Swisher, the Flosher, the Blitzer and the Ritzer are the models to be displayed in a line. The Flosher, however, cannot be placed next to the Ritzer, as it looks too inferior. How many ways can the Placement Department arrange the washing machines for display at the discount store?

F1/7 The sum of my mother’s and my father’s ages is 70 and my father is two years older than my mother. With my age added, our total is 80. How old will dad be when our total age is 101?

F1/8 I am thinking of a number. If you halve my number, square the answer and subtract the difference between 70 and 36, you will arrive at a number equivalent to 11 times 6. What is the number that I had thought of?

F1/9 In the Bring and Buy Drive for chocolates at their school, Class 5J sold 20%, Class 5S sold 30%, Class 6K sold 25%, and 10% was sold by class 6C. The rest were sold by 6M for $45. How much money did 5J and 5S each make?

F1/10 How long will it take to drive 120 km travelling at a constant speed of 90 km per hour?

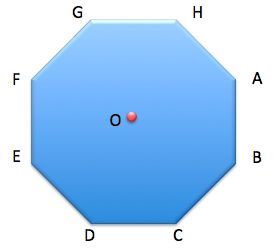
F1/11 Gary filled a 4 L bucket with water in 10 seconds. At the same rate, how many minutes would it take him to fill a 30 L container with water?

F1/12 After Mickey’s allowance was increased by 20% it was $ 420.00. What was the allowance that he received before the increment?

F1/13 The division of a whole number N by 13 gives a quotient of 15 and a remainder of 2. Find N.

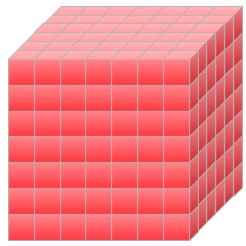
F1/14 The rectangular playground in Tim's school is three times as long as it is wide. The area of the playground is 75 square meters. If the playground is to be fenced with four rows of barbed wire, how many metres of barbed wire will the school need to buy if they wish to construct a 4 metres wide wooden gate?

F1/15 If 16 ½% of my money is $12. What is 50% of my money?

F1/16 The shape is turned 2700 clockwise, and then 450 counterclockwise. Find the new position of point A?

F1/17 If 40% of a number is 55, what is 44% of that number?

F1/18 The chest with golden coins weighs 200kg. Once the pirates pay exactly a half of the money to the government for taxes, the chest weighs 120kg. How much does the empty chest weigh?

F1/19 A 7x7x7 cube is painted, and then cut into 1x1x1 cubes.  How many of these cubes have only one painted side?

F1/20 There are 4 cards with numbers. They are arranged from smallest to largest.   
The difference between any two neighboring numbers is the same.   
The value of the third card is:

**Tie Breaker:**

F1/21 A rectangular restaurant kitchen has an area of 70 square metres and a perimeter of 34 metres. What are the dimensions of the kitchen?

F1/22 After a month of successful fundraising, Brad and his classmates voted on whether to donate the money they had raised to hunger relief or to environmental causes. Of the votes received, 21 were for hunger relief and 7 were for environmental causes. What percentage of the votes was for hunger relief?