**Fiji Mathematics Team Competition – National Final**

**YEAR 5 – 2016**

Y5/1 Kyle is in seat number 1,024. The number on Sierra’s seat has the same number of thousands and tens as Kyle’s number, but 2 more hundreds and 3 fewer ones than Kyle’s number. What is Sierra’s seat number?

Y5/2 Lynn’s loaf of bread has 24 slices. If she uses 8 slices to make four sandwiches, how many more sandwiches can she make?

Y5/3 x, y and z are three consecutive numbers. If x = 6 and z =8, what will be the product of x, y and z?

Y5/4 There are two numbers whose sum is 20 and the difference is 2. What is the larger number of the two numbers?

Y5/5 Joan sold half of her comic books and then bought 8 more. She now has 14. How many did she begin with?

Y5/6 How many minutes are there from 3 minutes to 3pm to 5 minutes to 6pm?

Y5/7 If 0·03 cm of a pencil is lost every time it is sharpened, how long will a 6·43 cm pencil become after it has been sharpened 12 times?

Y5/8 Look at the rectangle.

4cm

The diagram is not drawn to scale. The total area of the rectangle is 40cm2 .Work out lengths x and y?

X

Y

6.1 cm

Y5/9 Use any three of the following symbols to achieve a total of 43 using the following numbers 4, 7, and 9 in any order.

Symbols: +, x, - and ( ) (addition, subtraction, multiplication and brackets)

Y5/10 7/8 of a post is above ground. This is 21 meters. The rest is below ground. How long is the post?

Y5/11 Super Cheap Auto has reduced all stock by 1/5. If 25L of engine oil normally costs $64, what is the reduced price?

Y5/12 Paisley has 10 jelly beans. Lalith has 80 less than 9 x Paisleys jelly beans. Massey has 14 more x 100 than Lalith’s jelly beans. How many jelly beans they have in total.

Y5/13 For breakfast one morning mum made 10 roti’s. Ram ate 2 , Bimla ate 1, and Priya ate 1 . How much roti was left?

Y5/14 The mean of five numbers is 10. I add one more number and the mean is now 11. What number did I add?

Y5/15 When Dave arrived in Fiji, he has some money to help start his business. In the first three years this amount grew 10 times its original size. With this money he started a plant nursery and with a lot of hard work built up his personal wealth by a further $98 000 in a few years. If his personal wealth was now $148 000, how much did he have when he arrived in Fiji?

Y5/16 The area of a square is 49m2. What would be the perimeter of the square in mm?

Y5/17 Arrange the following numbers in ascending order.

1 , , 0.66 , , 1.23,

Y5/18 What is the mean of the following numbers?

**1.03 , 7.8 , 10.20 , 3 , 2.2 , 4.45 , 8.972 , 5 , 9.9 , 6.0 , 6.51 , 3.00001 , 8 , 5.427 , 1.010**

Y5/19 The class finished their documentary on May 15th. They spent one week editing the final version. Filming the footage took twice as long as editing. Researching the material before filming took twice as long as filming. On what date did the students begin their research?

Y5/20 Ronnie went to a pizza place with 2 friends. They ordered a large mushroom pizza for $23.90 and a garden salad for $8.65. They also got 2 sodas for $1.45 each. The Value Added Tax came to $1.50. How much change should they have received from $50.00?

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Tie Breaker

Y5/21 Mr. Bolton was building a fence. The length of the rectangular boundary is 45m and the boundary has an area of 1237.5 m2.He has bought 20 lengths of fencing that were each 8 m long. He plans to construct a wooden gate 3.5 m wide. How much fencing will he have left over?

Y5/22 The product of two square numbers is 1024. If the difference between the two square numbers is 48, what is the smaller square number?

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