**Fiji Mathematics Team Competition - Final**

**YEAR 7 – 2015**

Y7/1 If your allowance was $1.00 and this amount doubled every day, how many days would it take for you to have over $1000.00?

Y7/2 A vendor bought 500 eggs at $4 per 10 eggs. Of these, 50 eggs were found to be broken.

If he sold the remaining eggs at $0.55 per egg, calculate the vendor’s percentage gain or lose?

Y7/3 Gurmit paid $21 for five presents.

For A and B he paid a total of $6.

For B and C he paid a total of $10.

For C and D he paid a total of $7.

For D and E he paid a total of $9.

How much did Gurmit pay for present D?

Y7/4 If an object travels at five meters per second, how many meters does it travel in one

hour?

Y7/5 If Rosh has five times as many CD’s as I have, than what fraction of the total CD’s do I

have?

Y7/6 A length of wire is cut into two equal lengths. One of them is bent to form a square. The

other is used to form a rectangle, 15 cm long and 9 cm wide. Find the area of the square.

Y7/7 In a certain Fijian village, there are 700 women. Four percent of the women wear one

earring. Half of the remainder wears two earrings and half wear none. How many earrings are worn by all of the women?

Y7/8 A boy scored marks as follows in each of the four subjects: Basic Science 82,

Math 87, Social Science 94 and English 90.

He is aiming for an average of 90 marks. What is the minimum mark he should score in his Health Education paper?



Y7/9 Calculate the value of the function: if the value of n = 45.

Y7/10 On a recent trip to Washington, D.C., Julia measured the shadow of the Washington

Monument .It was 202.8 meters long. Julia’s shadow was 1.8 meters long. Julia is 1.5 meters tall. How tall is the Washington Monument ?

Y7/11 On October 13, 2002, British runner Paula Radcliffe set a new world’s record for the

women’s marathon. She ran 26.2 km in 137.3 minutes. The previous world’s record

was one minute and 29 seconds slower. What was Radcliffe’s average speed per minute

on her record-breaking run?

Y7/12 The perimeter of a rectangular field is 120m, If the length is 12 metres greater than the

width, What is the area of the field?

Y7/13 There are 20 people in a room. Of these, 15 are holding newspapers and 8 are wearing glasses. Everyone wears glasses or holds a newspaper. How many people are wearing glasses and holding a newspaper?

Y7/14 50cm x 50cm tiles is used to tile a floor area which has a dimension of 5m by 6m. A tile

layer charges $4.50 per square meter for tiling and the tiles cost $3.40 per tile. Tile glues needed is 6 bags at $18.00 each. What is the total cost of tiling the floor?

Y7/15 A **square** is divided into three congruent rectangles. Each of the three rectangles has a

perimeter of 24 cm. Find the area of the square.

**a**

**a**

**a**

**r**

Y7/16 After 20 minutes, Jerry has travelled 38 km in a carrier. At this rate how far will he travel in hours?

Y7/17 I have a square with area 169 cm2. If I add one cm to each side of my square to make a

new square, what will be the perimeter of the new square?

Y7/18 Samantha jogged 12 times along a rectangular field at the rate of 7.5 kilometers per

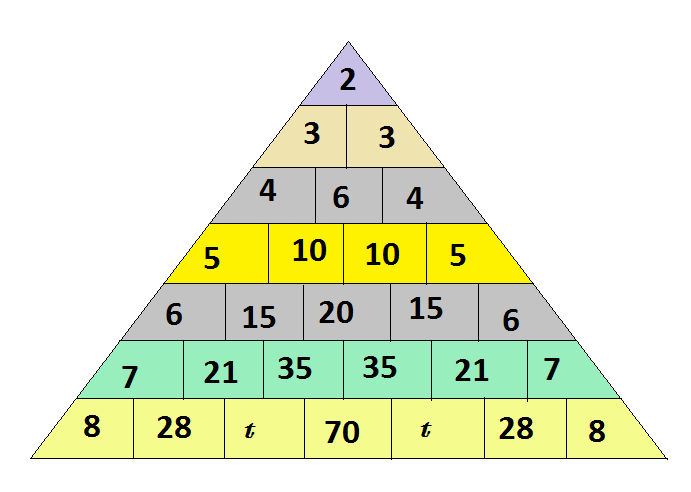
hour for 45 minutes. Calculate the perimeter of the field in meters.

Y7/19 Joshua takes 20 minutes to walk a distance of 4km. Niko takes 18 minutes to walk a distance of 3km. Calculate the speed of the fastest walker?

Y7/20 Naina is 4 years older than Kim. Kim is 6 years younger than Harry. If Harry is twice as

old as Ben and Ben is 8 years old, then how old is Naina?

**Tie Breaker:**



Y7/21 Find the value of the missing number ***t***?

Y7/22 The perimeter of a square is 52 cm. What would be the perimeter of 5 such squares

joined together at one edge ?