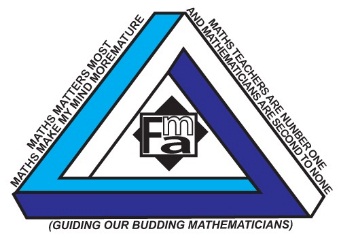
FIJI MATHEMATICS

ASSOCIATION

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**Fiji mathematics competition**

**(fmc)**

**YEAR 6**

**Thursday 23rd July 2015**

Time Allowed: 1 Hour 15 minutes

**Note:**

**Calculators are NOT permitted.**

**Diagrams are NOT drawn to scale.**

**Instructions:**

1. Print your **Name, School Name** and **Year** clearly in the space provided on the answer sheet.
2. Shade the circle corresponding to your answer with pencil on the answer sheet provided.
3. Multiple answers **will not be** accepted.



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1. Peter has 2 dozens chicken, 5 sheep and 6 goats in his farm. How many legs are there altogether?

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| A. 48 | B. 92 | C. 72 | D. 90 | E. 96 |

1. 178 = \_\_\_\_ + 106

What number will come in the blank to make the number sentence true?

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| A. 72 | B. 82 | C. 172 | D. 162 | E. 178 |

1. What kind of triangle has two equal sides?

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| A. Equilateral | B. Isosceles | C. Equiangular | D. Scalene | E. Left angle |

1. Complete the sequence 16, 19, \_\_\_, 25

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| A. 22 | B. 21 | C. 20 | D. 24 | E. 20.5 |

1. How many surfaces does a cube have?

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| A. 3 | B. 4 | C. 5 | D. 6 | E. 12 |

1. Trees are planted 7m apart along a driveway. How many trees will there be along the drive of 119m?

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| A. 18 | B. 17 | C. 16 | D. 19 | E. 20 |

1. The name of the angle marked α is

**P**

**Q**

**R**

**S**

**α**

|  |  |
| --- | --- |
| A. Angle **SPR** | B. Angle **RPS** |
| D. Angle **SPQ** | E. Angle **SQP** |
| C. Angle **RPQ** |  |

Use the diagram below to answer questions 8 and 9.

**A**

**B**

**C**

1. The cardinal number for Set A is equal to

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| A. 2 | B. 12 | C. 7 | D. 8 | E. 4 |

1. A U C =

|  |  |  |
| --- | --- | --- |
| A. {1,3,4,5,6,8,9,12} | B. {3,4,6,8,12} | C. {0,1,2,3,4,5,6,8,9,10,12,14} |
| D. {0,2,9,10,14,21,61} | E. {0,1,2,5,6,9,10,14,21,61} |  |

1. Which set of numbers show factors of 60 and are prime numbers?

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| A. {2,4,5,6,15} | B. {1,2,3,5} | C. {5,6,12,16,60} | D. {2,3,5} | E. {6,10,12,30} |

1. Identify the smallest fraction in the set {3/4, 5/8, 5/20, 21/24, 26/36}

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| A. 5/20 | B. 3/4 | C. 26/36 | D. 21/24 | E. 5/8 |

1. The perimeter of a rectangle is 86cm. If its area is 450cm2, what are its length and width if both are only in whole numbers?

|  |  |  |
| --- | --- | --- |
| A. L = 24, W =19 | B. L = 23, W =20 | C. L = 30,W =13 |
| D. L = 25, W =18 | E. L = 26, W =17 |  |

1. During a practical class in a high school a student was given a mop stick. The teacher asked him to cut the stick into 9 equal pieces. If it takes 30seconds to make one cut, how long will it take to complete the task?

|  |  |  |
| --- | --- | --- |
| A. 4 minutes 30 seconds | B. 2 minutes 10 seconds | C. 4 minutes |
| D. 3 minutes 30 seconds | E. 3 minutes |  |

1. A total of 40 Children took part in a Maths Quiz Battle. The number of children who finished behind Rex was twice as large as the number of children who were more successful than him. In which place did Rex finish?

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| A. 12 | B. 13 | C. 14 | D. 15 | E. 16 |



1. Identify the three dimension solid shown on the right.

|  |  |  |
| --- | --- | --- |
| A. Triangular Prism | B. Square Pyramid | C. Triangular Pyramid |
| D. Cone | E. Square Prism |  |

1. Timoci tosses two fair coins in the air. What is the probability that he will get tails on both the coins?

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| A. 2 | B. 1 | C. 0 | D. 1/2 | E. 1/4 |

1. Mr. Sami works at a local factory as the manager, he earns $526.45 a week. Calculate his pay for 52 weeks.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| A. $27370.40 | B. $27375.00 | C. $27375.50 | D. $27375.40 | E. $20375.50 |

1. Evaluate:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| A. | B. | C. | D. | E. |

1. Calculate the volume of the water tank shown on the right

7m

5m

2.4 m

|  |  |  |
| --- | --- | --- |
| A. 84m3 | B. 35m3 | C. 16.8m3 |
| D. 12m3 | E. 14.4m3 |  |

1. 4.35pm in 24 hour time will be

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| A. 04.35 | B. 4.35 | C. 16.35 | D. 14.35 | E. 18.35 |

1. Jone bought 64 lollies on his way to school. During recess he distributed ¾ of the lollies to his friends. How many lollies are left with him?

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| A. 35 | B. 60 | C. 63 | D. 52 | E. 48 |

1. Luke celebrated his 43rd birthday last night. In which year was Luke born?

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| A. 1971 | B. 1972 | C. 1975 | D. 1990 | E. 1973 |

1. 8 + 6/10 + 2/100 =

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| A. 0.862 | B. 268 | C. 8.062 | D. 8.62 | E. 86.2 |

1. What is the value of **2007 ÷ (2 + 0 + 0 + 7) – 2 x 0** × **0** × **7**?

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| A. 223 | B. 221 | C. 2007 | D. 0 | E. 9 |

1. Sam needs 15 pieces of fruit to make 3 glasses of juice. How many pieces of fruit does Sam need to make 10 glasses of juice?

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| A. 5 | B. 150 | C. 50 | D. 450 | E. 45 |

1. I’m thinking of a number. When I multiply it by 7, the product is 0. When I multiply the number by 8 instead of by 7 what is the product?

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| A. 1 | B. 0 | C. 7 | D. 8 | E. 0.8 |

1. Superman flew 1236km in 3 hours. What was his average speed?

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| A. 3708 km/h | B. 37.08km/h | C. 4.12 km/h | D. 41.2km/h | E. 412 km/h |

1. How many 450 millilitre jags of water does it take to fill in a 9 litre bucket?

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| A. 24 | B. 20 | C. 2 | D. 200 | E. 240 |

1. Mere started watching a movie at 10.45am. The movie ended at 25 passed 1 in the afternoon. What was the duration of the movie?

|  |  |  |
| --- | --- | --- |
| A. 3hours 25 minutes | B. 3hours 40 minutes | C. 2hours 40 minutes |
| D. 4hours 40 minutes | E. 4hours 25 minutes |  |

1. What is the equivalent fraction of 1 9/15

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| A. 24/5 | B. 19/5 | C. 8/5 | D. 4/5 | E. 12/5 |