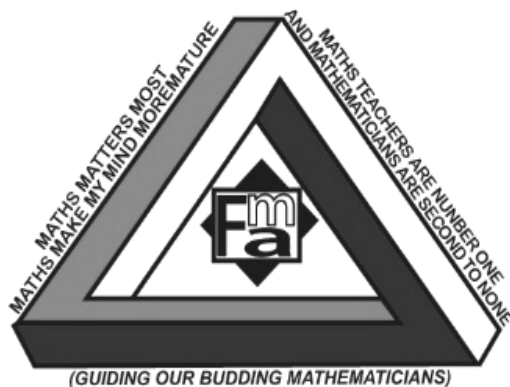


# **FIJI MATHEMATICS ASSOCIATION**



## **FIJI MATHEMATICS COMPETITION (FMC) YEAR 5**

**Thursday 6<sup>th</sup> September 2018**

**Time Allowed: 1 Hour 15 minutes**

**Note:**

**Calculators are NOT permitted.**

**Diagrams are NOT drawn to scale.**

### **Instructions:**

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

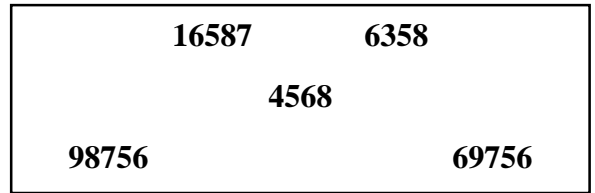
## Year 5

1. Twenty seven thousand two hundred and fifty six written in **digits** as:

A. 207256      B. 27256      C. 2720056      D. 20720056      E. 27200506

2. Ravi has five numbers as illustrated in the figure. He arranged the numbers in descending order. Which number will be placed first?

A. 16587      B. 4568      C. 69756  
D. 98756      E. 6358

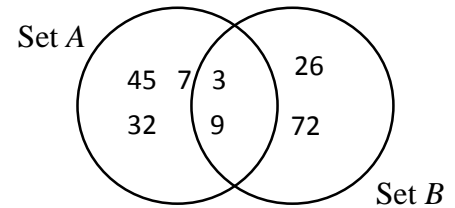


3. Which number is not a factor of 104?

A. 52      B. 21      C. 4      D. 13      E. 12

4. The Venn diagram shows relationship between Set A and Set B. What are the elements of  $A \cup B$ ?

A. {45,7,32}      B. {3,9}      C. {26,72}  
D. {45,7,3,32,9,26,72}      E. {26,72,45,7,32}



5. A Sunbeam transport bus driver drove his bus 36958km during January and 56745km in February. What was the total distance covered by the driver in two months?

A. 93703      B. 93103      C. 83703      D. 103703      E. 93693

6. Mr Ali had \$632.45 in his savings account at the beginning of 2017. Currently his account balance is seven times as much. What is his current account balance?

A. \$3797.40      B. \$639.45      C. \$4427.15      D. \$5059.60      E. \$4427.00

7. Quarter to 4 in the afternoon written in 24hour clock is?

A. 4:45pm      B. 3:45pm      C. 16:15      D. 16:45      E. 15:45

8. Identify obtuse angle.



9. Evaluate:  $2(12-3) + 5$

A. 20      B. 23      C. 13      D. 28      E. 19

10. The number m in the sequence is {1,8,15,22,29,m,43,50,...}

A. 35      B. 37      C. 34      D. 36      E. 39

11. Jone cut a 75m rope into 6 equal pieces. What size did Jone cut the ropes in?

A. 12.5cm      B. 13.5km      C. 32.5mm      D. 12.5m      E. 13.5cm

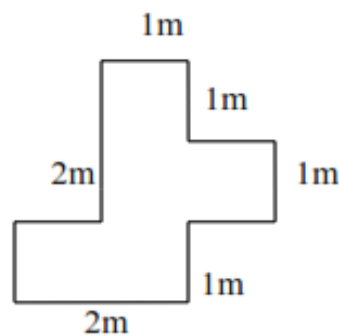
12. Evaluate  $\frac{2}{5} \times \frac{3}{9}$

A.  $\frac{6}{45}$       B.  $\frac{1}{9}$       C.  $\frac{5}{9}$       D.  $\frac{5}{3}$       E.  $\frac{18}{15}$

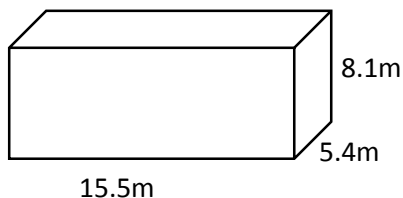
## Year 5

13. What is the perimeter of the given shape?

- A. 8                      B. 9                      C. 10  
D. 11                     E. 12



14. Calculate the volume of the given cuboid.



- A. 677.9                      B. 29                      C. 677.97  
D. 83.7                      E. 91.8

15. Melvin opened up his small piggy bank and separated the denominations. The table below indicates the number for each denomination.

Denomination	\$50	\$20	\$10	\$5	\$2	\$1	50c	20c	10c	5c
Number of:	1	2	4	7	32	27	87	120	270	35

How much money did Melvin have in his piggy bank?



- A. \$352.25                      B. \$355.55                      C. \$352.50  
D. \$351.75                      E. \$355.25

16. The diagram on the right shows a?

- A. Line                      B. Ray                      C. Array  
D. Line Segment                      E. Cord



17. Which of the following is not a property of a rectangle?

- A. Has four sides                      B. All four angles are equal                      C. Each internal angle is  $90^\circ$   
D. Internal angles add up to  $180^\circ$                       E. Opposite sides are equal

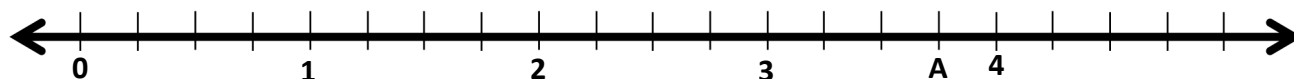
18. What is the name given to a straight line going through the centre of a circle connecting two points on the circumference?

- A. Radius                      B. Diameter                      C. Cord                      D. Arc                      E. Circumference

19. If I have a triangular prism and a cube, how many faces will be there in total?

- A. 12                      B. 11                      C. 10                      D. 9                      E. 8

20. What is the value of A on the given number line?



- A.  $\frac{3}{4}$                       B.  $1\frac{3}{4}$                       C.  $3\frac{3}{4}$                       D.  $3\frac{3}{4}$                       E.  $3\frac{1}{4}$

21. A number pattern follows the rule  $3n + 5$ . Where  $n$  is the number in the sequence. What will be the 105<sup>th</sup> number in the sequence?

- A. 315                      B. 310                      C. 20                      D. 120                      E. 320

## Year 5

22. Mike, Rakesh and Mere shared a pizza. Mere ate  $\frac{1}{4}$  of the pizza, while Mike ate  $\frac{1}{3}$  of the pizza. Rakesh ate the remaining pizza. What fraction of the pizza did Rakesh eat?

- A.  $\frac{7}{12}$       B.  $\frac{5}{4}$       C.  $\frac{5}{12}$       D.  $\frac{1}{2}$       E.  $\frac{1}{4}$

23. Lucy marks for the Second Term End Examinations were 57,73,89,66 and 79. What is the mean for her marks?

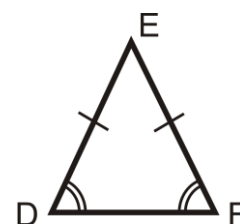
- A. 72.8      B. 72      C. 73      D. 364      E. 32

24. Two identical coins are tossed. What is the probability of getting both heads?

- A. 2      B. 1      C.  $\frac{1}{2}$       D.  $\frac{1}{4}$       E.  $\frac{3}{4}$

25. Identify the triangle given on the right.

- A. Equilateral Triangle      B. Right Angle Triangle      C.  $90^\circ$  Triangle  
D. Isosceles Triangle      E. Scalene Triangle



26. How many lines of symmetry are there in a square?

- A. 0      B. 2      C. 4      D. 3      E. 8

27. James thought of 3 numbers? The second number that he thought of was 250. The first number was 5 times smaller than the second number and the third number was twenty times larger than the first number. What is the sum of all 3 numbers?

- A. 50      B. 1300      C. 300      D. 2250      E. 5300

28. Samu sells eggs after school to help out his parents. The sales for last week is stated in the table below. How many eggs did Samu sell last week?

Day	Monday	Tuesday	Wednesday	Thursday	Friday
Number of eggs	$2\frac{1}{2}$ dozen	20 eggs	$3\frac{1}{4}$ dozen	$5\frac{1}{3}$ dozen	32 eggs

- A. 185      B. 63      C. 184      D. 180      E. 757

29. A café uses 1 litre of milk for every 8 cups of coffee. How much milk is used per cup?

- A. 1.25l      B. 0.125ml      C. 125l      D. 12.5ml      E. 125ml

30. Shafil bought the groceries as stated in the table. How much change will he get if he gave the cashier \$100 note?

Item	Quantity	Price
Flour	1bag	\$10.56
Potatoes	2.6kg	\$1.45/kg
Onion	3 and half kg	\$1.04/kg
Milk	2 packets	\$5.63/packet

- A. \$70.77  
B. \$29.23  
C. \$70.75  
D. \$29.25  
E. \$70.80