

FIJI MATHEMATICS ASSOCIATION



FIJI MATHEMATICS COMPETITION (FMC) YEAR 5

Wednesday 6th September 2017

Time Allowed: 1 Hour 15 minutes

Note:

Calculators are NOT permitted.

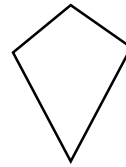
Diagrams are NOT drawn to scale.

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.

1. How many lines of symmetry are present in the Kite?

A. 1 B. 4 C. 0
D. 2 E. 3



2. Twelve thousand five hundred and seventy nine written in **digits** as:

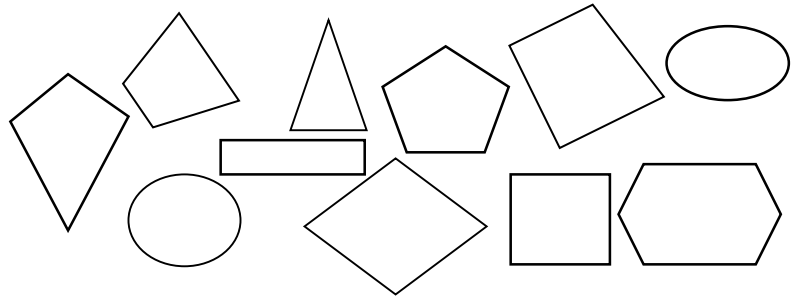
A. 120579 B. 1200050079 C. 12579 D. 125790 E. 1200579

3. $27 \times 15 = ?$

A. 42 B. 12 C. 504 D. 415 E. 405

4. Given on the right are different shape. How many of the shapes **are quadrilaterals**?

A. 11 B. 4
C. 5 D. 6
E. 3



5. While on a family trip to Suva Johns rental car broke down after travelling 64km. If John lives 193km from Suva, how far from Suva is he when his car broke down.

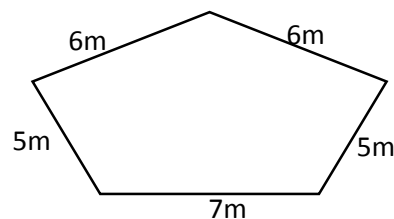
A. 129km B. 257km C. 121km D. 193km E. 64km

6. The value of $\frac{7}{16} - \frac{1}{4}$ is

A. $\frac{14}{16}$ B. $\frac{7}{16}$ C. $\frac{3}{4}$ D. $\frac{3}{16}$ E. $\frac{3}{8}$

7. Calculate the perimeter of the pentagon?

A. 22 B. 29
C. 25 D. 26
E. 27



8. Peni, Raj and Amit picked mangoes and sold it at the local market. At the end of the day the total sales was \$ 42.00. If the 3 of them divide the money equally amongst themselves. How much will each get?

A. 15 B. 14 C. 12 D. 16 E. 21

9. A rectangle is divided equally and then shaded.
What fraction of the rectangle is shaded?

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



10. Which fraction is written with the correct decimal?

- A. $\frac{3}{10} = 0.6$ B. $\frac{4}{20} = 0.2$ C. $\frac{6}{100} = 0.6$ D. $\frac{6}{20} = 0.12$ E. $\frac{50}{100} = 5.0$

11. Ten minutes to four in the morning is same as:

- A. 3.50 pm B. 4.10 am C. 3.50 am D. 4.10 pm E. 4.50 am

12. Convert $4\frac{5}{7}$ into improper fraction

- A. $\frac{20}{7}$ B. $\frac{39}{7}$ C. $\frac{28}{7}$ D. $\frac{33}{7}$ E. $\frac{27}{7}$

13. How many factors does 72 has?

- A. 13 B. 2 C. 72 D. 12 E. 11

14. What is the cardinal number for the Set A = {10,5,20,6,7,19,8}?

- A. 6 B. 7 C. 8 D. 5 E. 10

15. During a sale at the local store Ramu bought a Television set for \$769, a sofa set for \$4578, a table lamp for \$25.95 and a coffee table for \$109.50. What was the total spent by Ramu.

- A. \$18892 B. \$5482.45 C. \$548245 D. \$5482.00 E. \$1889.20

16. Convert 56437 metres in to kilometres

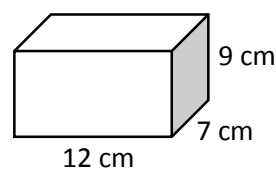
- A. 5643.7 km B. 564.37 km C. 5.6437 km D. 56.437 km E. 0.56437 km

17. Sam arranged the following numbers from largest to smallest (0.24, 0.78, 0.22, 0.94, 0.51). Which set of numbers show the correct arrangement done by Sam.

- A. 0.94, 0.78, 0.51, 0.22, 0.24 B. 0.22, 0.24, 0.51, 0.78, 0.94 C. 0.22, 0.24, 0.78, 0.51, 0.94
D. 0.78, 0.51, 0.94, 0.24, 0.22 E. 0.94, 0.78, 0.51, 0.24, 0.22

18. Calculate the volume of the cuboid.

- A. 63 cm^3 B. 84 cm^3
C. 756 cm^3 D. 108 cm^3
E. 510 cm^3



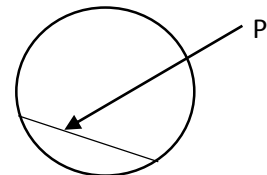
19. The one dimension shape shown on the right is called

- A. Line B. Ray C. Line Segment D. Parallel Line E. Perpendicular Line



20. Identify the part of the circle labelled P.

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



21. A car when filled $\frac{7}{8}$ contains 56 litres of petrol. How many litres of petrol would it contain if it was $\frac{1}{2}$ full?

- A. 32 L B. 64 L C. 49 L D. 60 L E. 112 L

22. Which of the following describes an **isosceles triangle**?

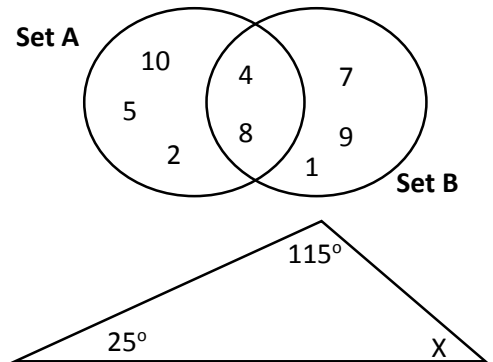
- A. All sides are equal B. All angles are equal C. Has a right angle
D. All sides are unequal E. Two sides are equal

23. Sikeli divided \$4560.80 amongst his 3 sons. Seru got $\frac{3}{8}$ of the money, Samu got $\frac{1}{2}$ of the money and Josh got the remainder of the money. How much did Josh receive?

- A. \$1710.10 B. \$2280.80 C. \$570.10 D. \$285.40 E. \$4.80

24. Which set of numbers represent $A \cup B$.

- A. 1,2,4,5,7,8,9,10 B. 2,4,5,8,10
C. 1,4,7,8,9 D. 4,8
E. 1,2,5,7,9,10



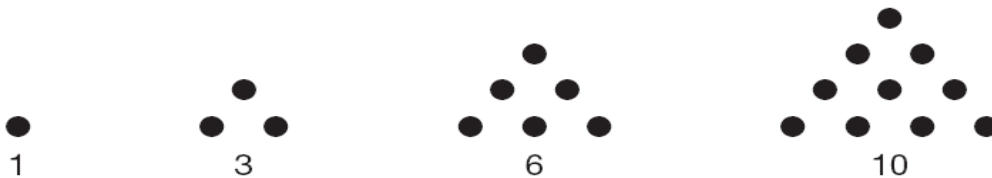
25. Calculate the value of angle marked x.

- A. 180° B. 155°
C. 140° D. 40°
E. 95°

26. Mere sat for 3 examinations. Her scores were 85, 79 and 91. If she wants to have an average of 88, how much she score in the fourth examination.

- A. 88 B. 85 C. 91 D. 95 E. 97

27. Illustrated below is the sequence of the first four triangular numbers. How many dots will make up the 10th triangular number?



- A. 45 B. 21 C. 55 D. 28 E. 36

28. On a fishing trip Tom caught 4 fish of 2300grams, 3 fish of 3.1 kg and 1 fish of 4670 grams. Calculate the total weight of the fishes.

- A. 10.07 kg B. 23.17 kg C. 6973.1 grams D. 9.2kg E. 9300 grams

29. Which of the following is not a factor of 126?

- A. 4 B. 63 C. 18 D. 42 E. 21

30. During the art and craft class Arjun makes a painting in 15 minutes and 40 seconds. How long will it take him to make 6 paintings?

- A. 1 and half hour B. 92 minutes 40 seconds C. 94 hours
D. 1 hour 34 minutes E. 240 minutes