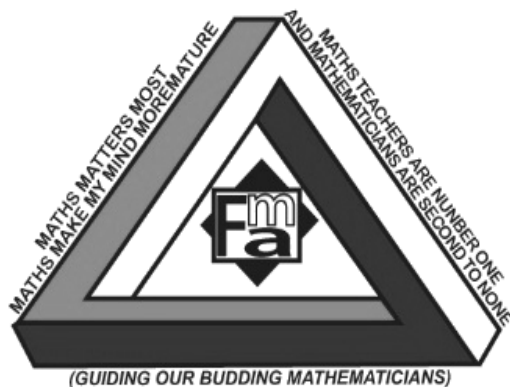


FIJI MATHEMATICS ASSOCIATION



FIJI MATHEMATICS COMPETITION (FMC) YEAR 6

Thursday 1st September 2016

Time Allowed: 1 Hour 15 minutes

Note:

Calculators are NOT permitted.

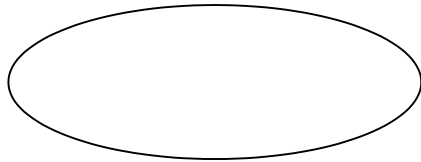
Diagrams are NOT drawn to scale.

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 6

1. The value of $3 + 7 + 8 + 12$ is
A. 20 B. 21 C. 29 D. 30 E. 31
2. 1.1×0.3 equals
A. 33 B. 3.3 C. 0.33 D. 0.303 E. 3.03
3. 0.75 written as simplest fraction is
A. $\frac{75}{100}$ B. $\frac{1}{2}$ C. $\frac{15}{30}$ D. $\frac{3}{4}$ E. $\frac{1}{8}$
4. Which fraction is the smallest
A. $\frac{4}{5}$ B. $\frac{17}{20}$ C. $\frac{2}{3}$ D. $\frac{7}{10}$ E. $\frac{100}{200}$
5. One hundred fifty thousand and ten is written in digits as
A. 100500 B. 150100 C. 150010 D. 151000 E. 150000
6. How many lines of symmetry can be found in this shape?



- A. none B. 1 C. 2 D. 5 E. many
7. Which of these numbers is a prime number?
A. $23 + 1$ B. 23×1 C. $23 + 23$ D. 23×2 E. $23 - 1$
 8. Arrange the numbers 36, 12, 29, 21, 7 in descending order.
A. 36, 29, 21, 12, 7 B. 7, 12, 21, 29, 36 C. 36, 29, 7, 21, 12
D. 7, 36, 12, 29, 21 E. 7, 12, 21, 36, 29
 9. At 3:00 pm, the angle between the big hand and the small hand on a clock is exactly 90° . Ten minutes later, the acute angle between the hands will be
A. 45° B. 35° C. 15° D. 70° E. 30°
 10. Calculate $25 + 5 \div 5 - (3 \times 2)$
A. 0 B. 6 C. 25 D. 20 E. 26
 11. A shopkeeper has 50kg of sugar. How many 250 grams packs can he make out of this sugar?
A. 100 B. 120 C. 150 D. 200 E. 500
 12. Find the discounted price if \$120 is discounted by 10%
A. \$108 B. \$12 C. \$112 D. \$132 E. \$100

Year 6

13. Fiji sevens team scored 45 points in a rugby match. $\frac{2}{3}$ of the total points were scored by Ravouvou. How many points were scored by Ravouvou?

- A. 15 B. 20 C. 30 D. 25 E. 45

14. $7\frac{1}{4}$ expressed as improper fraction is

- A. $\frac{28}{4}$ B. $\frac{11}{4}$ C. $\frac{9}{4}$ D. $\frac{29}{4}$ E. $\frac{27}{4}$

15. How many multiples of 3 are there between 1 and 25?

- A. 2 B. 4 C. 8 D. 12 E. 24

16. A standard soccer ground has a length of 120m x 90m. What is the perimeter of the ground?

- A. 120m B. 210m C. 420m D. 840m E. 0800m

17. What is the next number in the sequence given?

2, 6, 10, 14, ____,

- A. 18 B. 16 C. 15 D. 20 E. 22

18. The decimal sum of the fraction $7 + \frac{3}{10} + \frac{6}{100} =$

- A. 0.736 B. 73.6 C. 7.36 D. 736 E. 736.0

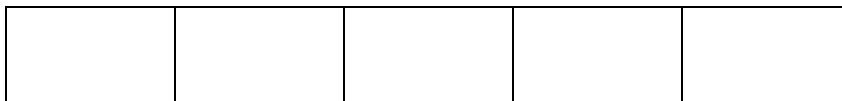
19. 5 friends picked 35 mangoes and decided to share them equally. How many mangoes will each get?

- A. 5 B. 10 C. 3 D. 8 E. 7

20. Calculate $2 \times (6 + 7) =$ _____

- A. 26 B. 19 C. 13 D. 15 E. 24

21. How many rectangles are there in this figure?



- A. 12 B. 15 C. 26 D. 48 E. 52

22. Roy has a saving account at BSP. He plans to save \$90.00 monthly. How much will he save in one year?

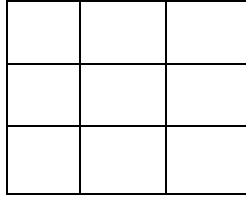
- A. \$450 B. \$540 C. \$1080 D. \$1170 E. \$2340

Year 6

23. A rectangular wall which has a length of 40 metres and a width of 5 metres needs to be painted. 1 litre of paint is required to paint 25 m^2 . How many litres of paint is required to paint this wall?

- A. 2L B. 4L C. 8L D. 10L E. 12L

24. What is the total number of different size squares in a 3×3 square?



- A. 14 B. 12 C. 10 D. 8 E. 6

25. A chess board is made of 64 squares. What is the number of squares along the perimeter?

- A. 32 B. 28 C. 36 D. 30 E. 64

26. Nysha went to Sports City at 10.45 am and came back after 3 hours and 20 minutes. What time did she return?

- A. 7.55 pm B. 2.05 am C. 8.25 am D. 1.30 pm E. 2.05 pm

27. A length of timber 3.96 m long is cut into 2 pieces. If the length of one is 1.88m, Calculate the length of the other piece.

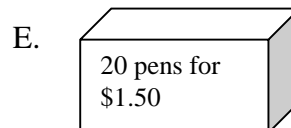
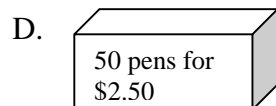
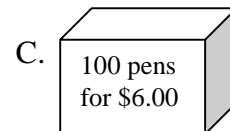
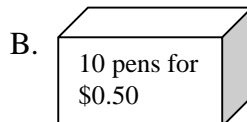
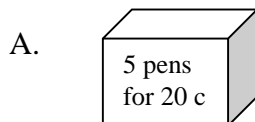
- A. 2.08 m B. 2.01 m C. 2.09 m D. 2.18 m E. 20.8 m

28. Set $P = \{2, 4, 6, 8, 10\}$ and Set $Q = \{8, 9, 10, 11, 12\}$

$P \cap Q$ is equal to

- A. $\{8\}$ B. $\{8, 9\}$ C. $\{8, 10\}$ D. $\{8, 9, 10\}$ E. $\{12\}$

29. Which box has the cheapest pens?



30. A mathematics teacher brought some lollies to her class. After giving 2 lollies each to 15 students who had completed their homework, she has 60 lollies left with her. How many lollies did she bring to the class?

- A. 15 B. 45 C. 90 D. 105 E. 30