

FIJI MATHEMATICS ASSOCIATION



FIJI MATHEMATICS COMPETITION (FMC) YEAR 7

Thursday 1st September 2016

Time Allowed: 1 Hour 15 minutes

Note:

Calculators are NOT permitted.

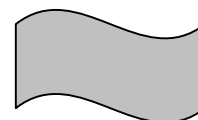
Diagrams are NOT drawn to scale.

Instructions:

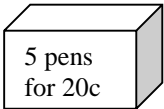
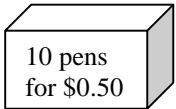
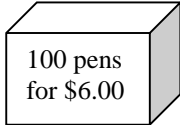
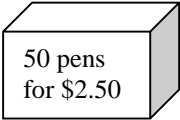
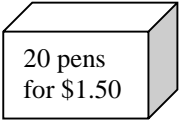
1. Print your **Name** in the space provided and Shade the circle corresponding to your **Year** on the answer sheet.
2. Shade the circle corresponding to your answer with dark pencil on the answer sheet provided.
3. Multiple answers **will not be** accepted.

Year 7

1. $0.35 + 14.1 + 0.6$ equals
A. 15.05 B. 14.05 C. 15.95 D. 14.46 E. 14.95
2. $4\frac{1}{2} - 1\frac{2}{8}$ equals
A. $3\frac{1}{6}$ B. $3\frac{1}{4}$ C. $5\frac{1}{4}$ D. $5\frac{3}{10}$ E. $10\frac{1}{3}$
3. What is 10% of fifty dollars?
A. \$7.50 B. \$5.00 C. \$1.00 D. \$10.00 E. \$15.00.
4. How many seconds are there in a day?
A. 60 B. 3600 C. 1440 D. 86400 E. 86000
5. In 1956, My Grandfather was 6 years old. What is his age now?
A. 44 B. 72 C. 66
D. 48 E. 60
6. Which fraction is the largest?
A. $\frac{4}{5}$ B. $\frac{17}{20}$ C. $\frac{100}{200}$ D. $\frac{2}{3}$ E. $\frac{7}{10}$
7. What is the product of the prime numbers between 20 and 30?
A. 52 B. 79 C. 18009 D. 667 E. 50
8. The number 6 is $\frac{1}{7}$ of
A. 42 B. 15 C. 56 D. 16 E. 2
9. Arrange the numbers 36, 12, 29, 21, 7 in ascending 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
10. How many lines of symmetry can be found on this shape?
A. 1 B. 2 C. 3
D. 4 E. none



Year 7

11. Find the area of a rectangular field with length 86 m and width 24 m.
A. 220 m^2 B. 110 m^2 C. 54 m^2 D. 2064 m^2 E. 88 cm^2
12. The next number in the pattern 1, 4, 9, 16, ____ is
A. 19 B. 23 C. 21 D. 30 E. 25
13. Roy leaves Rakiraki at half past one in the afternoon and arrives at Nadi Airport after 100 minutes. At what time did he arrive at the Airport?
A. 2.30pm B. 4.10pm C. 3.10pm D. 2.40pm E. 12.30am
14. A Water Truck fills a tank with 415 litres of water every 3 days. How many litres of water will it fill in 30 days?
A. 4150 litres B. 41.5 litres C. 421 litres
D. 2490 litres E. 6640 litres
15. Davina exchanges \$70 with 20cent coins at ANZ bank. How many coins will she get for seventy dollars?
A. 35 B. 350 C. 140 D. 3500 E. 130
16. Which of these numbers is a prime number?
A. $71 + 1$ B. 71×1 C. $71 + 71$ D. 71×71 E. $71 - 1$
17. Which box has the cheapest pens?
- A.  B.  C. 
- D.  E. 
18. The average mark is 82 for 4 tests. The scores of the first 3 tests are 81, 75 and 79. What is the total score of the 4 tests?
A. 317 B. 246 C. 93 D. 304 E. 328
19. If you double me and then subtract 500, the answer is 200. What number am I?
A. 700 B. 1200 C. 1400 D. 300 E. 350

Year 7

20. Bhima drinks Viti Life Milk that comes in 1 litre packets. Every day he drinks 400 ml of milk. How many packets of milk will he drink in 10 days?
- A. 40 B. 400 C. 4000 D. 4 E. 10
21. A Samurai sword measures 2.5 m. How many swords are put in a straight line to measure $\frac{1}{2}$ km?
- A. 50 B. 20 C. 200 D. 500 E. 70
22. 5 lemons cost \$1.00. Find the cost of 20 lemons.
- A. \$10.00 B. \$1.00 C. \$4.00 D. 20 cents E. \$40.00
23. A tank can hold 460 kg of sugar at FSC. 80 % of the tank is empty.
How much sugar is in the tank?
- A. 320 kg B. 92 kg C. 200 kg D. 800 kg E. 368 kg
24. Calculate $25 + 5 \div 5 - (3 \times 2)$
- A. 0 B. 6 C. 25 D. 20 E. 26
25. A photo shop charges \$0.60 for printing each photo. It gives \$1.00 discount for printing every 10 photos. Find the cost of printing 15 photos.
- A. \$6.00 B. \$8.00 C. \$9.00 D. \$3.00 E. \$10.00
26. A long rope has to be cut to make 23 small pieces. If it is double folded to start with, how many times does it need to be cut?
- A. 9 B. 23 C. 11 D. 12 E. 13
27. I am an even number less than 50. The sum of my digits is 9. 12 is one of my factors. Who am I?
- A. 18 B. 48 C. 24 D. 36 E. 63
28. Which shape has no edges?
- A. Prism B. Cone C. Cylinder D. Sphere E. Pyramid
29. If you use the phone during weekdays, you are charged \$2.10 a minute. During weekends you pay only 30 cents a minute. How much do you save by talking for 2 minutes in the weekend rather than on a weekday?
- A. \$6.00 B. \$4.10 C. \$3.60 D. \$1.80 E. \$0.60
30. Jerry has \$38.00 in his pocket in \$2, \$1, 50c, 20c and 10c coins and he has an equal number of each type. That number is ;
- A. 15 B. 8 C. 16 D. 20 E. 10

