

1. Sugar is sold in four different sized packet. Which is the best buy?  
A. 250 g for \$0.80      B. 500 g for \$1.65      C. 1 kg for \$3.50      D. 2 kg for \$6.90
2. Rajan rides his bike at a speed of 5 m/s. What is this speed in km/h?  
A. 18      B. 19      C. 20      D. 21
3. If \$2000 is divided in the ratio 6 : 8 : 11, the smallest share is  
A. \$80      B. \$480      C. \$640      D. \$880
4. The 28<sup>th</sup> day of a month is Thursday. The 4<sup>th</sup> day of that month was  
A. Monday      B. Tuesday      C. Wednesday      D. Thursday
5. Two minutes to midnight in 24 hour time is  
A. 1158      B. 2302      C. 2358      D. 0058
6. The extra time , in minutes, that would take to cover a distance of 100 km at 50 km/h instead of 60 km/h would be  
A. 10      B. 12      C. 20      D. 30
7. If it takes Raj 15 minutes to cut a board into four pieces, how long would it take him to cut the same type board into 12 pieces?  
A. 40 minutes      B. 45 minutes      C. 50 minutes      D. 55 minutes
8. Each child in a family has at least five brothers and at least six sisters. What is the smallest number of children the family could have?  
A. 10      B. 11      C. 12      D. 13
9. How many times are the hands of a clock perpendicular in a day?  
A. 42      B. 44      C. 46      D. 48
10. Manet can paint a wall in 1 hour. Mohit can paint it in 30 minutes. If they work together, how many minutes will it take them to paint the wall?  
A. 15      B. 17      C. 20      D. 22

11. After spending  $\frac{1}{4}$  of my money, then  $\frac{1}{5}$  of the remainder, I now have \$72 dollars remaining. How many dollars did I start with?  
 A. \$60      B. \$72      C. \$110      D. \$120
12. The price of a radio is \$230, which includes 15% VAT. What is the amount of VAT included in this price?  
 A. \$15      B. \$30      C. \$34.50      D. \$200
13. The value of  $1 - 2 + 3 - 4 + \dots - 100 + 101$  is  
 A. 51      B. 62      C. 70      D. 99
14. When Ashika fenced her square garden, she needed 20 posts for each side. How many posts did she use?  
 A. 80      B. 78      C. 76      D. 74
15. A cube of volume  $1000 \text{ cm}^3$  is painted and is then cut into cubes with volume  $1 \text{ cm}^3$ . How many small cubes have exactly one painted face?  
 A. 64      B. 384      C. 512      D. 640
16. In numbering the pages of a book 246 digits are used. The number of pages in the book is  
 A. 118      B. 123      C. 180      D. 246
17. What distance is represented by 8 cm if the scale is 1:100 000?  
 A. 1 km      B. 8 km      C. 80 km      D. 800 km
18. How many 200 mm square tiles are needed to cover an area of 3600 mm x 4000 mm?  
 A. 200      B. 350      C. 360      D. 370
19. A goat is tied to the corner of a 8 m x 10 m building with 12 m rope. How many square metres of grass can it reach to eat?  
 A  $108\pi$       B  $110\pi$       C  $113\pi$       D  $144\pi$

20. Minjy invests \$2000 for 1 year and 5 months at a rate of 6% per annum simple interest. What is the total value of the investment at the end of this period?
- A. \$2170      B. \$2180      C. \$3003      D. \$3700
21. A car takes 5 hours to complete a journey when travelling at 60 km/h. How long would the same journey take if the car were travelling at 75 km/h?
- A. 3 h      B. 4 h      C. 5 h      D. 6 h
22. A positive number is increased by 60%. By what percentage should the result be decreased to return to the original value?
- A. 37.5%      B. 40%      C. 62.5%      D. 50%
23. Driving between two towns at 60 km/h instead of 50 km/h saves 10 minutes. The distance in kilometres between the two towns is
- A. 50km      B. 55 km      C. 60 km.      D. 65 km
24. Ashok's bike tires have a radius of 30 cm. He rides his bike far enough that the tires rotate exactly five times. How far does his bike travel?
- A.  $60\pi$  cm      B.  $100\pi$  cm      C.  $200\pi$  cm      D.  $300\pi$  cm
25. Anna and Tom ate an entire chocolate cake. The ratio of the amount eaten by Anna to the amount eaten by Tom is 3 : 1. What percentage of the cake did Tom eat?
- A. 25%      B. 50%      C. 75%      D. 90%
26. An open box is made from a square piece of cardboard with sides 12 cm by cutting a square of sides 2 cm from each corner and bending up the sides. The volume of the box is
- A.  $128 \text{ cm}^3$       B.  $138 \text{ cm}^3$       C.  $200 \text{ cm}^3$       D.  $288 \text{ cm}^3$

27. A student had the following scores in maths: 77, 85, 88, 92, 96, 99, 100. What is the difference between the median and the mean of these scores?  
A 1      B 3      C 14      D 23
28. If 3 sandwiches, 7 cups of coffee, and 1 donut cost \$30, the cost of 6 sandwiches, 14 cups of coffee and 2 donuts would be  
A. \$60              B. \$75              C. \$90              D. \$95
29. Three men can paint 4 rooms in 12 hours. How many hours will it take one man to paint one room at the same rate?  
A. 8              B. 9              C. 10              D. 36
30. At a party, every attendee shakes hands with every other attendee once. If 66 handshakes occur at the party, how many people attended?  
A 11              B 12              C 13              D 14