

1. Jone claims he is 1 m 8cm and 3mm tall. What is this height in metres?  
A 1.83m    B 1.803m    C 1.083m    D 1.038m
2. A billion is represented by a 1 followed by  
A. 3 zeros    B. 6 zeros    C. 9 zeros    D. 12 zeros
3. The average of the two positive integers m and n is 15.  
What is the largest possible value for n?  
A. 2    B. 15    C. 29    D. 31
4. Water is pumped into a 2000 L tank. The volume of water in the tank doubles every minute and the tank is filled in 10 minutes. How many minutes did it take to pump 1000L of water?  
A. 2    B. 5    C. 8    D. 9
5. The missing number in the sequence 2, 4, 8, 16, \_\_\_\_, 64 is  
A. 30    B. 31    C. 32    D. 38
6. Ram's bike tires have a radius of 30 cm. He rides her bike far enough that the tires rotate exactly 10 times. How far does his bike travel in centimetres?  
A.  $30\pi$     B.  $60\pi$     C.  $300\pi$     D.  $600\pi$
7. 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
8. Ten friends ate at a restaurant and agreed to share the bill equally. Anna forgot her money, so each of her nine friends paid an extra \$4 to cover her portion of the total bill. What was the total bill?  
A. \$36    B. \$40    C. \$360    D. \$400
9. 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

10. 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
11. 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
12. The value of  $1 - 2 + 3 - 4 + \dots - 98 + 99$  is
- A. 50                      B. 69                      C. 70                      D. 99
13. What is the size of the acute angle between the hour and minute hands of a clock at 2:20?
- A.  $40^\circ$                       B.  $50^\circ$                       C.  $54^\circ$                       D.  $56^\circ$
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 wooden cube is painted and is then cut into 64 smaller cubes.  
How many small cubes have one painted face?
- A. 4                      B. 8                      C. 16                      D. 24
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?
- A. 16 cm                      B. 80 cm                      C. 800 cm                      D. 8000 cm
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 wall of **total area**  $120 \text{ m}^2$  is to be painted using **2 coats** of paint. **One litre** of paint will cover  $6 \text{ m}^2$  ..How many litres of paint will be needed?
- A. 20                      B. 30                      C. 40.                      D. 50
20. A cylindrical can with a diameter of 14 cm and a height of 28 cm contains 2 spherical balls each with a diameter of 14 cm. What percentage of the space in the can is not occupied by the balls?
- A.  $33\frac{1}{3}\%$                       B. 25%                      C.  $66\frac{2}{3}\%$                       D.  $\frac{1}{3}\%$

21. At a speed of 60 km per hour, a train passed through a 1.4 km long tunnel in two minutes. What is the length of the train?
- A 300 m            B 600 m            C 1000 m            D 1400 m
22. In 200 m race, Anna covers the distance in 72 seconds and Bina in 90 seconds. In this race Anna beats Bina by:
- A 40 m            B 45 m            C 50m            D 55 m
23. A circular pizza with radius 9 is cut into 6 equal slices, with all cuts going through the center. The perimeter of a slice is
- A  $3\pi$             B  $6+3\pi$             C  $9+3\pi$             D  $18+3\pi$
24. 4 friends, including Raj and Joe, want to sit in a row. How many different ways can they be seated if Raj and Joe are to sit next to each other?
- A 6            B 12            C 24            D 48
25. If the cost of 2 bottles of juice , 3 packets of biscuits and 1 packet of chips is \$12, what is the cost of 4 bottles of juice, 6 packets of biscuits and 2 packets of chips ?
- A. \$24            B. \$26            C. \$28            D. \$30
26. What percentage of \$10 is 20 cents?
- A. 2%            B. 10%            C. 20%            D. 200%
27. In one year, the population of a city increased by 20%. In the next year, it decreased by 10%. What was the percentage increase in the population over the two years?
- A. 8%            B. 10%            C. 15%            D 30%
28. Rajan rides his bike at a speed of 27 km/h. What is this speed in m/s?
- A. 7.5            B. 18.75            C. 97.2            D. 450
29. If 7:30 p.m. was 16 minutes ago, in how many minutes will it be 8:00 p.m.?
- A. 14            B. 16            C. 24            D. 46
30. How many square centimetres are in 0.0075 square metres?
- A. 0.75            B. 7.5            C. 75            D. 7500