

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. 30π B. 60π C. 300π ☒ D. 600π

7. The 28th day of a month is Thursday. The 4th 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° ☒ B. 50° C. 54° D. 56°
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 m^2 is to be painted using **2 coats** of paint. **One litre** of paint will cover 6 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 3π 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