

- The sum  $-40 + -39 + -38 + \dots + 38 + 39 + 40 + 41$  equals
  - 0
  - 30
  - 40
  - 41
- Half of a number is 3.5. What is twice the number?
  - 7
  - 9
  - 10
  - 14
- What is the time 57 minutes before 4.33 pm?
  - 5.30 pm
  - 3.34 pm
  - 3.35 pm
  - 3.36 pm
- If Tony was born in 1947, the age he turns on his birthday in 2024 is
  - 74
  - 75
  - 76
  - 77
- One million, thirty thousand and ten in numerals is
  - 10300010
  - 1003010
  - 103010
  - 1030010
- The average of three numbers is 0.214. Two of the numbers are 0.22, and 0.222. The other number is
  - 0
  - 0.1
  - 0.2
  - 0.22
- Which of the following is closest to 9?
  - 8.17
  - 8.71
  - 9.2
  - 9.21
- Starting at 1000, Rihanna counted backwards, taking 7 off each time. What was the last positive number she counted?
  - 3
  - 4
  - 6
  - 7
- Which of the following represents 20 as a product of its prime factors
  - $2 \times 10$
  - $4 \times 5$
  - $2^2 \times 5$
  - $2^2 \times 10$
- 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?
  - 10
  - 11
  - 13
  - 14

11. Rajen bought a laptop on terms where he paid a \$300 deposit and made monthly repayments of \$100 for 2 years. How much did he pay for the laptop?  
 A. \$400                      B. \$2700                      C. \$2800                      D. \$3000
12. If you begin reading at the top of page  $x$  of your favourite story book and stop reading at the bottom of page  $y$ , the number of pages you have read is  
 A.  $x - y$                       B.  $y - x + 1$                       C.  $y - x - 1$                       D.  $y - x$
13. Of the following, which is the smallest fraction?  
 A.  $\frac{1}{4}$                       B.  $\frac{1}{8}$                       C.  $\frac{1}{3}$                       D.  $\frac{1}{2}$
14. It is now 3 pm. What will be time in 100 hours?  
 A. 3.00 pm                      B. 7.00 pm                      C. 8.00 pm                      D. 11.00 pm
15. Anna takes 70 paces to walk 50m. The number of paces she takes to walk 2 km is  
 A. 280                      B. 2800                      C. 3000                      D. 3500
16. 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. 20                      B. 12                      C. 10                      D. 8
17. A cube of edge length 3 units is painted. It is then cut into 27 one-unit cubes. How many faces of the one-unit cubes are not painted?  
 A. 108                      B. 110                      C. 150                      D. 162
18. In the magic square shown, each of the rows, columns and diagonals adds to 45. What is the sum of the corner numbers?
- |  |    |  |
|--|----|--|
|  |    |  |
|  | 15 |  |
|  | 3  |  |
- A. 60                      B. 55                      C. 50                      D. 45
19. By which number must  $\frac{1}{2}$  be divided to obtain 3 as the result?  
 A.  $\frac{1}{6}$                       B.  $\frac{1}{3}$                       C.  $\frac{1}{5}$                       D. 6
20. What is the value of  $412 \div 4$ ?  
 A. 103                      B. 43                      C. 33                      D. 13

21. When I opened my story book, the sum of the two pages facing me was 223.  
What was the number of the next page?
- A. 110                      B. 111                      C. 112                      D. 113
22. If a 8-inch diameter circular pizza serves two students, how many students should two 12-inch diameter circular pizzas serve?
- A. 6                      B. 7                      C. 8                      D. 9
23. A train 500m long is travelling at 20m/s. How long, in seconds, will it take to pass completely through a 1000 m tunnel?
- A. 25                      B. 40                      C. 50                      D. 75
24. Three men can complete a job in 8 days. How many days will it take four men to complete the same job if they work at the same rate?
- A. 3                      B. 4                      C. 5                      D. 6
25. Ron went shopping to buy kitchen towels. Which of the following gave the best value?
- A. 4 for \$4.60      B. 1 for \$1.35      C. 2 for \$2.40                      D. 10 for \$11
26. Which number multiplied by itself is equal to 4 times 25?
- A. 100                      B. 25                      C. 10                      D. 9
27. A 200m by 400m rectangular field is to be fenced and posts are to be placed 5m apart. If posts are sold in bundles of 5, how many bundles of posts would be needed?
- A. 38                      B. 40                      C. 48                      D. 50
28.  $\frac{1}{4}$  of the children in Year 8A class are girls. If there are 24 boys, how many children are there in total in Year 8A?
- A. 6                      B. 30                      C. 32                      D. 34
29. In a canteen you can choose from 2 different types of sandwich and 6 different kinds of fruit. A meal is a sandwich and a piece of fruit. How many different meals can you have?
- A. 6                      B. 8                      C. 12                      D. 13
30. A pyramid has 8 edges. What is the shape of the base?
- A. triangle                      B. pentagon                      C. square                      D. hexagon