

1. Pita celebrated his 30th birthday in April 2023. In what year was he born?  
A. 1992                      B. 1993                      C. 1994                      D. 1995
2. A particular ingredient is sold in four different sized packets. Which is the best buy?  
A. 100 g for \$0.80      B. 200 g for \$1.65      C. 300 g for \$2.50      D. 1 kg for \$9
3. Three men can complete a job in 6 days. How many days will it take two men to complete the same job if they work at the same rate?  
A. 4                      B. 9                      C. 12                      D. 18
4. A billion is represented by a 1 followed by  
A. 3 zeros      B. 6 zeros      C. 9 zeros      D. 12 zeros
5. A bicycle is advertised for sale at \$300 cash or 4 monthly repayments of \$100. By paying cash, the amount, in dollars, you would save is  
A. 100                      B. 120                      C. 300                      D. 400
6. In numbering the pages of a book 189 digits are used. The number of pages in the book is  
A. 99                      B. 100                      C. 180                      D. 189
7. The extra time , in hours, that would take to cover a distance of 300 km at 50km/h instead of 60 km/h would be  
A. 6                      B. 5                      C. 2                      D. 1
8. What percentage of \$10 is 20 cents?  
A. 2%                      B. 10%                      C. 20%                      D. 200%
9. How many times between noon and midnight are the hands of the clock perpendicular to each other?  
A. 22                      B. 23                      C. 24                      D. 26
10. What is the difference between the largest and smallest of the numbers in the list 0.043, 0.402, 0.403, 0.420, 0.042?  
A. 0.361                      B. 0.377                      C. 0.378                      D. 0.388
11. The morning temperature of  $-2^{\circ}\text{C}$  rose by  $7^{\circ}\text{C}$  by midday then dropped by  $10^{\circ}\text{C}$  in the evening. The evening temperature was  
A.  $-5^{\circ}\text{C}$                       B.  $-10^{\circ}\text{C}$                       C.  $5^{\circ}\text{C}$                       D.  $10^{\circ}\text{C}$

12. 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
13. 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
14. A store sells jellybeans at a fixed price per gram. The price for 150 g of jellybeans is \$7.50. What mass of jellybeans sells for \$2?  
A. 20 g                      B. 30 g                      C. 40 g                      D. 150 g
15. The value of  $|-3| + |-2|$  is  
A. -5                      B. -1                      C. 1                      D. 5
16. Four times a number,  $x$ , is subtracted from 12. The result is 9. The correct mathematical equation for the above is given by  
  
A.  $4x - 12 = 9$               B.  $12 - 4x = 9$               C.  $4(x - 12) = 9$               D.  $9 - 4x = 12$
17. 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
18. The perimeter of the regular polygon with a side length of 15 and exterior angles measuring  $40^\circ$  is  
  
A. 135                      B. 140                      C. 260                      D. 360
19. The average of the two positive integers  $m$  and  $n$  is 7. The largest possible value for  $n$  is  
  
A. 2                      B. 7                      C. 13                      D. 15
20. A tank is  $\frac{1}{6}$  full of kerosene. If 8 litres of kerosene is added then the tank is  $\frac{1}{4}$  full.  
What is the capacity of the tank in litres?  
A. 90                      B. 94                      C. 96                      D. 98
21. What is the equation of y-axis?  
A.  $x = 0$                       B.  $y = 0$                       C.  $x = y$                       D.  $y = -x$
22. Which of the following numbers is greater than  $-1.32$  ?

- A.  $-1.22$       B.  $-1.52$       C.  $-1.42$       D.  $-2.32$

23. Under reflection in the  $y$  – axis, the image of point  $(1, 3)$  is

- A.  $(1, -3)$       B.  $(-1, -3)$       C.  $(-1, 3)$       D.  $(3, 1)$

24. The value of  $x$  which makes the equation,  $8 - x = 11$  true is

- A. 19      B. 3      C.  $-3$       D.  $-19$

25. When completely factorized  $m - m^2$  is equal to

- A.  $m(1 - m)$       B.  $m^2(1 - m)$       C.  $m(m - 1)$       D.  $m^2(m - 1)$

26. The value of  $-3^2$  is

- A.  $-9$       B.  $-6$       C. 6      D. 9

27. A painter has finished painting  $\frac{2}{3}$  of a room by 1:00 pm and  $\frac{3}{4}$  of the same room by 1:30 pm. At this rate, when does he finish painting the room?

- A. 2:00 pm      B. 3:00 pm      C. 3:30 pm      D. 4:30 pm

28. The letters D, E and F are used to make a three-letter company name. Each letter is used only once. How many different company names can be made?

- A. 3      B. 6      C. 9      D. 27

29. Tara's bicycle tire has a circumference of 1.5 m. If Tara travels 900 m on her bike, how many full rotations will the tire make?

- A. 900      B. 1350      C. 600      D. 450

30. 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