

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