Numerical Reasoning Correct Answers with Solutions and Explanations:

Instruction: Solve the following Math quizzes.

1. 2187, 729, 243, 81, 27, 9, ____?

   1. 6
   2. 3
   3. 4
   4. 2

2. 1, 4, 9, 16, 25, 36, 49, 64, ___ ?

   1. 72
   2. 75
   3. 81
   4. 90

3. 13 -21 34 -55 89 ___?

   1. -95
   2. 104
   3. -123
   4. -144

4. AZ CX EV GT ____?

   1. IR KP
   2. IR KQ
   3. IS KQ
   4. IS KP

5. A5 D25 G125 J625 M3125 ____?

   1. P15525
   2. P15625
   3. O15525
   4. O15625

6. What is -25 + 16?

   1. 9
   2. -9
   3. -41
   4. 41

7. What is 107 – (-17) ?

   1. -90
   2. 90
   3. 124
   4. -124

8. (-9) (-22) = ____?

   1. 198
   2. -198
   3. 31
   4. -31

9. (21) (-4) + (8) (-2) = ____?

   1. -100
   2. 100
   3. -23
   4. 23

10. (-560) ÷ 7 = ___?

   1. -80
   2. 80
   3. -553
   4. 553

11. 6/8 + 2 ½ + 4/12 is also the same as?

   1. ½ + 2.5 + ¼
   2. ½ + 5/2 + 1/6
   3. ¾ + 2.5 + 1/6
   4. ¾ + 5/2 + 1/3

12. What is the Least Common Denominator of 1/8, ¾, and 1/16?

   1. 4
   2. 8
   3. 16
   4. 2

13. What is the Greatest Common Factor of 36 and 54?

   1. 6
   2. 12
   3. 18
   4. 9

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14. What is the sum of ½ + 8/4 + 6/12 ?

    1. 15/12
    2. 3/12
    3. 3
    4. 3 1/12

15. 3/9 x 2/3 = _____

    1. 6/27
    2. 2/9
    3. 9/18
    4. 1/9

16. ¾ ÷ 1/8 = _____

    1. 8
    2. 4
    3. 12
    4. 6

17. What is the decimal form of ¾ %?

    1. .0075
    2. .075
    3. .75
    4. .00075

18. Convert 3.4% as a fraction.

    1. 34/100
    2. .34/100
    3. 3.4/1000
    4. 3.4/100

19. What is ¼ in decimal?

    1. .025
    2. .25
    3. 2.5
    4. .0025

20. What is the ratio of ½ to 2/5?

    1. 3:4
    2. 5:4
    3. 1:3
    4. 2:5

21. 2.12 is multiplied by 10 to the sixth power is?

    1. 212.000
    2. 2,120,000
    3. 212,000
    4. 21,200

22. 25 is multiplied by 10 to the fifth power is?

    1. 2,500,000
    2. 250,000
    3. 25,000
    4. .000025

23. Find the value of x in the equation: 5x + 25 =10

    1. 5
    2. 3
    3. -3
    4. -5

24. If x=8, find the value of y in the equation: 4x – 2y = 28.

    1. -4
    2. -2
    3. 4
    4. 2

25. Find the value of x if y= 8 in the equation: 2x + 4y = 50

    1. 9
    2. 8
    3. 10
    4. 4

Numerical Reasoning Correct Answers with Solutions and Explanations:

Problem Solving / Word Problems:

26. Kit is twice as old as his friend Sam. Sam is 5 years older than Cara. In 5 years, Kit will be three times as old as Cara. How old is Sam?

1. 2 years old
2. 3 years old
3. 4 years old
4. ***5 years old***

27. James's dad is 5 times older than James and James is twice as old as his sister Sara. In two years, the sum of their ages will be 58. How old is James now?

1. 6 years old
2. 7 years old
3. ***8 years old***
4. 9 years old

28. Cathy scored 85, 87, 90, 95, and 100 in her Math exams. What will be her average grade in Math from this period?

1. 91.40
2. 91.50
3. 92
4. 93.50

29. Letty left home and drove at the rate of 50 miles per hour for 2 hours. She stopped for lunch then drove for another 4 hours at 65 mph to reach Los Angeles. How many miles did Letty drive to reach LA?

1. 115 miles
2. ***360 miles***
3. 310 miles
4. 100 miles

30. Michelle went to SM for the 3-day sale. She bought a new pair of shoes and paid only P2,450 discounted for 20% off. What was the original price of the shoes?

1. ***P3,062.50***
2. P3,260.50
3. P3,620.50
4. P3,026.50