**MATHEMATICAL ABILITY**

DIRECTIONS: Multiple choice. Select the best answer.

1. Evaluate the following expression: -450 + 2(50)² - ( 260 – 210)² - 1,200
2. 650
3. 850
4. 1,300
5. 2,500
6. The product of 24.5 and 0.034 added to the product of 0.05 and 0.028 is \_\_\_\_\_\_\_\_.
7. 0.2334
8. 0.8344
9. 0.8470
10. 0.9730
11. A ribbon is cut in half. Each half is then cut in half again. The smallest ribbon measures 12 cm. how long is the ribbon at first?
12. 6 cm
13. 12 cm
14. 24 cm
15. 48 cm
16. What is the additive inverse of -20?
17. 20
18. 0
19. -20
20. 1/20
21. The multiplicated inverse of -x is \_\_\_\_\_\_.
22. X
23. -1/x
24. X¯¹
25. 1/x
26. Find the product of 1(-1)(-1)(-1)(-1).
27. -1
28. 1
29. -5
30. 5
31. If a =3, b=4, c=5, how much greater is (a³ + b³ + c³) than 3abc?
32. 26
33. 36
34. 46
35. 56
36. Simplify: 7+5-@(4+3) – (-8)
37. -5
38. 5
39. 6
40. 7
41. The smallest prime number is \_\_\_\_\_\_\_.
42. 1
43. 2
44. 3
45. 5
46. Which of the following is NOT a prime number?
47. 31
48. 37
49. 57
50. 59
51. Using numbers 4, 5, 3, what is the smallest number formed which is divisible by 6?
52. 435
53. 345
54. 354
55. 534
56. Which of the following is the Greatest Common Factor of 16 and 24?
57. 3
58. 4
59. 8
60. 12
61. Which of the following is the GCF of 72, 120, and 144?
62. 24
63. 18
64. 12
65. 8
66. what is the Least Common Multiple of this set of numbers (4, 5, 10)?
67. 40
68. 300
69. 20
70. 10
71. Joyce and Joel visit their mother regularly. Joyce usually goes home every other weekend while Joel goes home third weekend. If they are together in their mother’s home today, then after how many weekends will they see each other again?
72. 2
73. 4
74. 6
75. 8
76. The prime factorization of 90 is \_\_\_\_\_\_\_\_.
77. 2x2x3x5
78. 3x3x3x5
79. 2x2x2x3x5
80. 2x3x3x5
81. Which of the following fractions is in its lowest term?
82. 18/24
83. 39/45
84. 42/63
85. 13/17
86. Which of the following is the largest fractions?
87. 1/5
88. 4/15
89. 2/3
90. 7/13
91. Sophia spent one-fourth of her money in one store. In the next store, she spent three-fifths. If she had P1,000 at the beginning, how much money was left?
92. P100
93. P150
94. P300
95. P400
96. Five-halves divided one-half is equal to \_\_\_\_\_\_\_\_\_.
97. 2
98. 3
99. 5
100. 7
101. Mr. Cucio divided his property among his three children. To the first he gave 2/5 of it, to the second he gave 1/3 and the remainder to the third. What part was given to the third child?
102. 3/15
103. 4/15
104. 6/15
105. 5/8
106. The average of the following fractions 2/5, ½ and 1/6 is \_\_\_\_\_\_.
107. 16/15
108. 8/15
109. 16/45
110. 8/45
111. There are 24 girls in a grade 1 class. If the ratio of girls: boys is 3:2, how many are boys?
112. 12
113. 14
114. 16
115. 18
116. The product of two numbers is 72 and their ratio is 5:7. What are the numbers?
117. 42,30
118. 30,42
119. 32,40
120. 36,36
121. Mr. Magno distributed to his three children his money amounting to P520,000 in the ratio 5:7:8. How much did the youngest receive if given the largest share?
122. P 130,000
123. P 208, 000
124. P 228, 000
125. P 312,000

**ANSWER KEY:**

1. B
2. B
3. D
4. A
5. B
6. B
7. B
8. C
9. B
10. C
11. C
12. C
13. A
14. C
15. C
16. D
17. D
18. C
19. B
20. C
21. B
22. C
23. C
24. B
25. B