Dr Numsen – Junior High Number Sense – 2002

Set I – Test 1

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1. $478 + 391 =$ _____.
2. $26 \times 11 =$ _____.
3. $\frac{3}{8} - \frac{1}{5} =$ _____.
4. $19(21) + 21^2 =$ _____.
5. CXLII = _____ (Arabic numerals).
6. $25 \times 48 =$ _____.
7. $182433 \div 3 =$ _____.
8. $50 \times 60 \times 70 =$ _____.
9. $481 \div 9 =$ _____ (mixed number).

(*) 10. $798 + 302 + 751 + 68 =$ _____.

11. $14 \times 16 =$ _____.
12. The remainder when $1478 \div 5$ is _____.
13. $3\frac{1}{3} \times 1\frac{1}{5} =$ _____.
14. $12 \times 131 =$ _____.
15. $7.5 \div .15 =$ _____.
16. The average of 27, 36, and 42 is _____.
17. $321 - 123 =$ _____.
18. $\frac{14}{15} \times 14 =$ _____ (mixed number).
19. $4 + 8 + 12 + 16 + 20 =$ _____.

(*) 20. $121 \times 123 =$ _____.

21. $22\frac{2}{9}\% =$ _____ (fraction).
22. $15 \times 24 =$ _____.
23. If $x = 7$, then $5x + 3 =$ _____.
24. $\frac{1}{2} - \frac{1}{3} =$ _____.
25. $2\frac{1}{2}$ feet = _____ inches.
26. The GCD of 72 and 84 is _____.
27. $49 \times 51 =$ _____.
28. The negative reciprocal of $3\frac{1}{4}$ is _____.
29. $.1 \times .2 \times .3 \times .4 =$ _____ (fraction).

(*) 30. $724100 \div 239 =$ _____.

31. $\sqrt{144} + \sqrt{25} =$ _____.
32. 40% of 125 is _____.
33. $75 \times 14 =$ _____.
34. The area of a square is 100 square feet. Its perimeter is _____ feet.
35. 320 minutes = _____ hours (mix num).
36. How many distinct prime numbers divide evenly into 52? _____.
37. $3 \cdot 4 \cdot 5 \cdot 6 + 1 =$ _____.
38. $1 + 2 + 3 + 4 + 5 + 6 =$ _____.
39. $35 \times 35 =$ _____.

(*) 40. $\sqrt{144444} =$ _____.

41. The area of a circle whose radius is 6 is $b\pi$ and $b =$ _____.
42. $39^2 - 11^2 =$ _____.
43. Solve for x: $19x - 3 = 17x + 21$ _____.

44. $3\frac{1}{4} \times 3\frac{3}{4} =$ _____ (mixed number).

45. What percent of 75 is 3.75? _____ %.

46. The perimeter of a rectangle is 24 inches. If the width is half the length, the is its area? _____ square inches.

47. $7 \times 7^2 =$ _____.

48. How many positive integral divisors does 12 have? _____.

49. $12\frac{1}{2} \times 48 =$ _____.

(*) 50. $16 \times 17 \times 18 =$ _____.

51. $3\frac{1}{4}$ meters = _____ centimeters.

52. $27_{10} =$ _____$_8$.

53. The length of the diagonal through a square whose sides are 6 inches is _____ inches.

54. $52^2 =$ _____.

55. A right triangle has legs of 6 and 8. Its hypotenuse is _____.

56. $101 \times 73 =$ _____.

57. If $3x - 2 < 1$, then $3x - 5 <$ _____.

58. $9^2 + 27^2 =$ _____.

59. $1 + 3 + 5 + 7 + \ldots + 23 =$ _____.

(*) 60. $473 \times 1231 \div 67\frac{1}{2} =$ _____.

61. $.545454\ldots =$ _____ (fraction).

62. If $f(x) = x^2 - 6x$, then $f(3) =$ _____.

63. $97 \times 94 =$ _____.

64. If a \$12.00 item is going to be taxed at 9%, what will the total cost after tax be? \$ _____.

65. $P(5, 3) =$ _____.

66. 3 square feet = _____ square inches.

67. The slope of the line whose equation is $x - 3y = 6$ is _____.

68. $111 \times 271 =$ _____.

69. 56% of 24 is 42% of _____.

(*) 70. $9\pi^4 =$ _____.

71. The LCM of 16 and 15 is _____.

72. There are six red balls and four green balls in a sack. What is the probability of a randomly drawing out a red ball? _____.

73. The largest root of $x^2 - 4x - 5 = 0$ is __.

74. $74 \times 131 =$ _____.

75. The sum of two numbers is 25 and their product is 154. What is the absolute value of their difference? _____.

76. $C(7, 2) =$ _____.

77. $4 - 2 + 1 - \frac{1}{2} + \cdots =$ _____.

78. $(6 - \sqrt{2})(6 + \sqrt{2}) =$ _____.

79. The fifth triangular number is _____.

(*) 80. $1428 \times 67 =$ _____.