Dr Numsen – Junior High Number Sense – 2002

Set I – Test 2

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1. $199 + 202 =$ _____.
2. $35 \times 8 =$ _____.
3. $\frac{5}{12} - \frac{1}{3} =$ _____.
4. $175 \div 5 =$ _____.
5. $10000 - 3793 =$ _____.
6. Which is larger: $\frac{3}{14}$ or $\frac{2}{9}$? _____.
7. $216 \times 11 =$ _____.
8. $\frac{5+6+7}{2+3+4} =$ _____.
9. $18 \times 32 \div 9 \div 8 + 5 =$ _____.

(*) 10. $731 + 845 + 753 - 235 =$ _____.

11. $8(13) + 22(13) =$ _____.
12. $17^2 =$ _____.
13. The average of 14, 16, and 21 is _____.
14. LXX = _____ (Arabic numerals).
15. $38 \times 25 =$ _____.
16. Reduce $\frac{28}{42}$ to lowest terms. _____.
17. $732 - 237 =$ _____.
18. $453 \div 9 =$ _____ (mixed number).
19. $\frac{18}{25} \times \frac{5}{9} =$ _____.

(*) 20. $715 \times 313 =$ _____.

21. $39 \times 12 =$ _____.
22. $\frac{3}{8} =$ _____ (decimal).
23. $1.7 \times .2 \times .3 =$ _____.
24. Find the area of a square whose sides measure 8". _____ sq. in.
25. $376 \div 5 =$ _____ (mixed number).
26. $63 \times 57 =$ _____.
27. $\sqrt{729} =$ _____.
28. $3 + 7 + 11 + 15 + 19 + 23 =$ _____.
29. $\frac{14}{17} \times 14 =$ _____ (mixed number).

(*) 30. $129799 \div 397 =$ _____.

31. $32\% =$ _____ (fraction).
32. If $x = 19$, then $3x - 17 =$ _____.
33. The smallest prime divisor of 395 is ____.
34. $15 \times 81 =$ _____.
35. $\frac{1}{4}$ of 3 feet is _____ inches.
36. 19% of _____ is 38.
37. The GCD of 68 and 88 is _____.
38. $9^2 + 8^2 =$ _____.
39. If one dozen pens cost \$2.52, then three pens cost \$ _____.

(*) 40. $19 \times 21 \times 21 =$ _____.

41. Solve for x: $9x + 5 = 7x - 3$ _____.
42. $4\frac{1}{5} \times 1\frac{1}{5} =$ _____ (mixed number).
43. How many positive integral divisors does 42 have? _____.

44. $16 + 176 + 1776 =$ _____.

45. $4\frac{1}{20}$ meters = _____ millimeters.

46. A circle has a circumference of 16π inches. Its diameter is _____ inches.

47. The reciprocal of $3\frac{1}{3}$ is _____ (decimal).

48. The remainder when 737 is divided by 9 is _____.

49. If $\frac{x+3}{5} = \frac{20}{25}$, then $x =$ _____.

(*) 50. $1428 \times 71 =$ _____.

51. $48 \times 48 =$ _____.

52. If $A = 6$ and $BA - A = 12$, then $B =$ __.

53. $47_8 =$ _____$_{10}$.

54. $8\frac{1}{3} \times 4\frac{1}{3} =$ _____ (mixed number).

55. The legs of a right triangle are 3 and 4. Its hypotenuse is _____.

56. $7^2 + 21^2 =$ _____.

57. The area of a rhombus whose diagonals are 12 inches and 14 inches is _____ in^2.

58. The slope of the line passing through $(3, -5)$ and $(7, -3)$ is _____.

59. 5 m^2 = _____ cm^2.

(*) 60. $12\frac{1}{2} \times 13\frac{1}{2} \times 8 =$ _____.

61. $33 \times 75 =$ _____.

62. The sum of the positive integral divisors of 14 is _____.

63. If $3x - 4 \leq 14$, then $x \leq$ _____.

64. $97^2 - 13^2 =$ _____.

65. $2\frac{1}{3}$ gallons = _____ in^3.

66. $96 \times 93 =$ _____.

67. $(19 + 34 \times 7) \div 8$ has a remainder of __.

68. 72% of 324 is 81% of _____.

69. $6 + 8 + 10 + 12 + \ldots + 30 =$ _____.

(*) 70. $18\pi^3 =$ _____.

71. The probability of drawing an Ace from a standard deck of 52 cards is _____.

72. If $f(x) = x^3 - x^2 + x - 1$, then $f(2) =$ _____.

73. $101 \times 371 =$ _____.

74. The volume of a square based pyramid whose base sides are 7 inches and height is 6 inches is _____ in^3.

75. Divide 68 into two parts such that the larger number exceeds the smaller number by 8. The larger number is _____.

76. $111 \times 197 =$ _____.

77. The cube root of -1331 is _____.

78. The product of the roots of $3x^2 - 7x + 12 = 0$ is _____.

79. $333\frac{1}{3} \times 333 =$ _____.

(*) 80. Find the perimeter of a square whose area is 100000 in^2. _____ in.