1st Score: _____	2nd Score: _____	3rd Score: _____	
Grader: _____	Grader: _____	Grader: _____	**Final Score**

Name: _____ School: _____

SS/ID Number: _____ City: _____

Grade: 5 6 7 8 Classification: 1A 2A 3A 4A 5A

TMSCA MIDDLE SCHOOL NUMBER SENSE 2003 - 2004 PRACTICE SERIES

GENERAL DIRECTIONS

1. Write only the requested information on this coversheet. Do not make any additional marks on this cover sheet.
2. You will be given 10 minutes to take this test.
3. There are 80 problems on the test.
4. Write in ink only! It would be advantageous to use non-black ink.
5. Solve as many problems as you can in the order that they appear.
6. Problems that are skipped are considered wrong.
7. Problems that appear after the last attempted problem do not count either for or against you.
8. ALL PROBLEMS ARE TO BE SOLVED MENTALLY! [No scratch work!]
9. Only the answer may be written in the answer blank.
10. Starred [*] problems require approximate INTEGRAL answers that are within 5% of the exact answers. All other problems require exact answers.
11. All problems answered correctly are worth FIVE points. FOUR points will be deducted for all problems answered incorrectly or skipped before the last problem attempted.

2003 - 2004 TMSCA Middle School Number Sense Test # 1

1) $.17 =$ _____ %

2) $6714 + 982 =$ _____

3) $30\% =$ _____ fraction

4) $429 - 277 =$ _____

5) $\frac{7}{20} =$ _____ decimal

6) $\frac{2}{5} =$ _____ %

7) $1818 \div 6 =$ _____

8) $11 \times 436 =$ _____

9) $4 \times 999 =$ _____

*10) $17 + 24 + 62 + 19 + 81 =$ _____

11) $14^2 =$ _____

12) $\frac{7}{8} - \frac{3}{4} =$ _____

13) CCLIV = _____ Arabic number

14) $28 \times 25 =$ _____

15) Which is larger $\frac{7}{8}$ or $\frac{6}{7}$? _____

16) $286 \div 9$ has a remainder of _____

17) 47 nickles = $ _____

18) $12\frac{1}{2} \times 16 =$ _____

19) 16 milliliters = _____ liters

*20) $203 \times 302 =$ _____

21) 13 inches = _____ feet

22) $3\frac{1}{3}\% =$ _____ fraction

23) The mean of 48, 46, 49 and 49 is _____

24) $45^2 =$ _____

25) $11 + (-2) - 3 =$ _____

26) 93 = _____ Roman numeral

27) $13 \div 2\frac{1}{2} =$ _____

28) If $6n + 7 = 31$, then $n =$ _____

29) $3\frac{1}{2} \times 12 =$ _____

*30) $4.6 \times 3.8 \times 2.1 \times 5 =$ _____

31) The area of a square with side $\frac{3}{4}$ is _____

32) $50 \times 264 =$ _____

33) If $\frac{5}{8} = \frac{x}{3}$, then $x =$ _____

34) The supplement of a 47° angle is _____ °

35) $58 \times 52 =$ _____

36) $27_8 =$ _____ 10

37) The cost of driving a car 80 miles at $.25 per mile is $ _____

38) $6\frac{2}{3} \times 6\frac{1}{3} =$ _____ mixed number

39) $98 \times 98 =$ _____

*40) $\pi^5 =$ _____

41) $16\frac{2}{3} \times 36 =$ _____

42) $8\frac{1}{3} \times 4\frac{1}{3} =$ _____ mixed number

43) $24 \times 6 + 6 \times 76 =$ _____

44) .444... = _____ fraction

45) $26^2 - 24^2 =$ _____

46) {s, m ,i ,t ,h} has _____ subsets

47) 24 is one and one third of _____

48) $1 + 2 + 3 + ... + 15 + 16 =$ _____

49) $102 \times 106 =$ _____

*50) $4.6^4 =$ _____

51) $16 \times 32 =$ _____

52) The diagonal of a square with side 9 is _____

53) 18 is _____ % less than 20?

54) Adding 35% of a number to the number is the same as multiplying the number by _____

55) If $\frac{1}{7} + \frac{1}{3} = \frac{1}{x}$, then x = _____

56) $24_{10} =$ _____ 7

57) If $f(x) = 5x - 7$, then $f(-1) =$ _____

58) The geometric mean between 1 and 4 is _____

59) The number of positive fractions in lowest terms with denominator 10 is _____

*60) $142857 \times 54 =$ _____

61) One foot = _____ inches

62) $111 \times 235 =$ _____

63) The surface area of a cube with inner diagonal 3 is _____

64) $8^2 + 24^2 =$ _____

65) The slope of the line passing through (2,7) and (−1,10) is _____

66) $\sqrt{27}$ simplified is _____

67) If $24_b = 18_{10}$, then b = _____

68) If the hypotenuse of a 30-60-90 triangle measurers 12, then its short leg measures _____

69) $3367 \times 15 =$ _____

*70) $\sqrt{31,000} =$ _____

71) $\frac{4}{7} + \frac{7}{4} =$ _____ mixed number

72) The volume of a sphere with radius 3 is _____

73) $998 \times 997 =$ _____

74) $\frac{13}{11} \times 13 =$ _____ mixed number

75) The slope of the line $2y = 4x + 8$ is _____

76) 5! = _____

77) $23_5 + 14_5 =$ _____ 5

78) One gallon = _____ in^3

79) $10 - 9 =$ _____

*80) $123 \div 7\frac{2}{7} =$ _____