CONTESTANT ID #: _____

GRADE LEVEL :_____

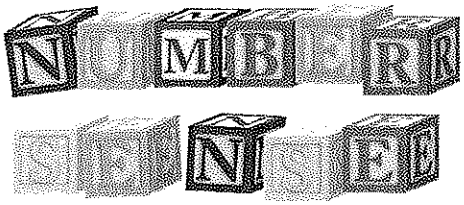
Place Contestant ID label here AFTER grading

PSIA
Private Schools Interscholastic Association

Number Sense

State Contest

Grades 2-3



2023

Grader #1 Score: _____

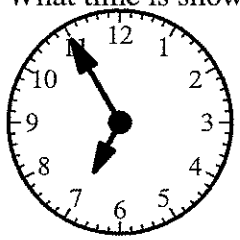
Grader #2 Score: _____

Grader #3 Score: _____

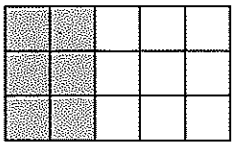
FINAL SCORE: _____

(Please do not open test until the signal is given to begin.)

1. $4 + 7 =$ _____
2. $13 - 8 =$ _____
3. $8 + 8 =$ _____
4. $20 - 14 =$ _____
5. 2 quarters = _____ ¢
6. $43 + 37 =$ _____
7. $85 - 24 =$ _____
8. $9 + 9 + 6 =$ _____
9. $14 + 24 + 21 =$ _____
* 10. $394 + 497 + 798 =$ _____
11. $100 - 36 =$ _____
12. Find the difference between 55 and 31. _____
13. 24 inches = _____ feet
14. What number makes this equation true?
$45 - \square = 18$ _____
15. $38 + 57 - 37 =$ _____
16. Which is the largest: **403**, **433**, or **344**? _____
17. What digit is in the hundred's place of 875?
_____
18. $4 \times 3 =$ _____
19. How many sides does an octagon have? _____
* 20. $1587 - 234 - 456 =$ _____
21. 5 hours = _____ minutes
22. $39 \times 0 =$ _____
23. $675 - 485 =$ _____
24. $4 \times 5 \times 6 =$ _____
25. $28 \div 4 =$ _____
26. What time is shown on the clock?



_____
27. $18 + 18 + 18 + 18 + 18 = 18 \times$ _____
28. $580 - 480 + 220 =$ _____
29. 4 dimes + 1 nickel = _____ ¢
* 30. $867 + 931 + 765 - 335 =$ _____
31. $781 - 99 =$ _____
32. Write the numeral **six thousand, sixty**
_____
33. $18 + 19 + 20 + 21 + 22 =$ _____
34. $52 \div 2 =$ _____
35. Jake kicked 17 field goals this season. Each field goal is worth three points. How many points did he score? _____
36. What fraction is represented by the shaded area?



_____
37. $7831 - 4934 =$ _____
38. $12 \times 7 \div 6 =$ _____
39. How many minutes pass from 12:50pm to 1:30pm on the same day? _____ minutes
* 40. $69 \times 89 =$ _____

41. Simplify $\frac{20}{25}$ to lowest terms. _____

42. $35 \times 11 =$ _____

43. What is the sum of 43, 14, and 76? _____

44. $400 \div 50 =$ _____

45. The perimeter of a square is 32 inches. Each side measures _____ inches

46. $3.2 + 4.4 =$ _____ (decimal)

47. $30 \times 60 =$ _____

48. Write the fraction **two-elevenths** _____

49. $2023 - 1585 =$ _____

* 50. $34353 \div 63 =$ _____

51. What number multipllied by six is twelve? _____

52. $45 \times 45 =$ _____

53. $37 \times 28 = 28 \times$ _____

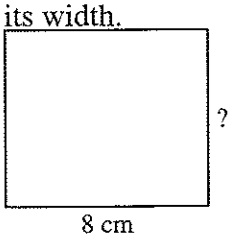
54. Liz has 34 coins. She gives half of them away. How many coins does she have left? _____

55. $50 \times 18 =$ _____

56. $17.84 - 14.68 =$ _____ (decimal)

57. $232 \div 2 =$ _____

58. The area of the rectangle shown is 56 cm^2. Find its width.



_____ cm

59. $68 \times 72 =$ _____

* 60. $298 \times 395 =$ _____

61. What digit is in the tenth's place of 749.83? _____

62. $1.2 + 1.4 + 1.6 =$ _____ (decimal)

63. $\frac{5}{8} - \frac{3}{8} =$ _____ (fraction)

64. $24 \times 28 = 14 \times$ _____

65. $36^2 - 26^2 =$ _____

66. What is the largest prime divisor of 35? _____

67. $18^2 =$ _____

68. Write the Roman numerals LXIV in Arabic numerals. _____

69. $(37 - 7) \div 5 =$ _____

* 70. $4.44 \times 36 =$ _____

71. $33 \times 25 =$ _____

72. Round 4.8375 to the nearest hundredth's place. _____

73. 75% of 36 is _____

74. 45.7 liters = _____ milliliters

75. What is the largest 4-digit number with exactly two "7"s in it? _____

76. $1 + 2 + 3 + 4 + 5 + 6 + 7 + 8 =$ _____

77. $2.4 \times 5 =$ _____

78. Find the area of the triangle with base 22 inches and height 31 inches. _____ in^2

79. $5400 + 54 = 54 \times$ _____

* 80. $72145 \div 425 =$ _____

For each estimation problem, the exact value (rounded to two decimal places) appears in square brackets.

(1) 11

(2) 5

(3) 16

(4) 6

(5) 50

(6) 80

(7) 61

(8) 24

(9) 59

***(10)** 1605 – 1773
[1689]

(11) 64

(12) 24

(13) 2

(14) 27

(15) 58

(16) 433

(17) 8

(18) 12

(19) 8

***(20)** 853 – 941
[897]

(21) 300

(22) 0

(23) 190

(24) 120

(25) 7

(26) 6:55

(27) 5

(28) 320

(29) 45

***(30)** 2117 – 2339
[2228]

(31) 682

(32) 6060

(33) 100

(34) 26

(35) 51

(36) $\frac{2}{5}$

(37) 2897

(38) 14

(39) 40

***(40)** 5834 – 6448
[6141]

(41) $\frac{4}{5}$

(42) 385

(43) 133

(44) 8

(45) 8

(46) 7.6

(47) 1800

(48) $\frac{2}{11}$

(49) 438

***(50)** 519 – 572
[545.29]

(51) 2

(52) 2025

(53) 37

(54) 17

(55) 900

(56) 3.16

(57) 116

(58) 7

(59) 4896

***(60)** 111825 – 123595
[117710]

(61) 8

(62) 4.2

(63) $\frac{1}{4}$

(64) 48

(65) 620

(66) 7

(67) 324

(68) 64

(69) 6

***(70)** 152 – 167
[159.84]

(71) 825

(72) 4.84

(73) 27

(74) 45700

(75) 9977

(76) 36

(77) 12

(78) 341

(79) 101

***(80)** 162 – 178
[169.75]