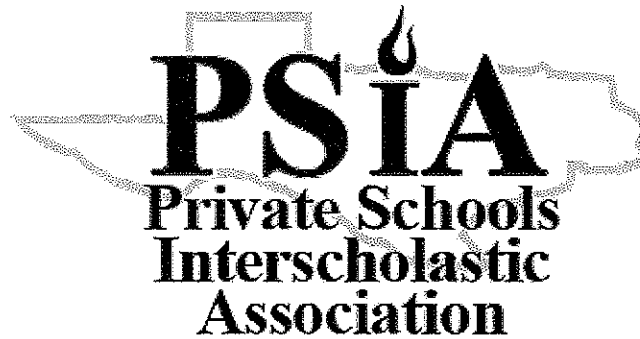


CONTESTANT ID #: _____

*Place Contestant ID label here
AFTER grading*

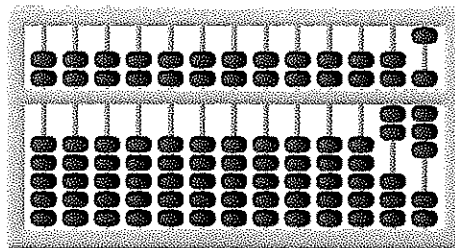
GRADE LEVEL : _____



Number Sense

District Contest

Grades 4-5



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. $72 + 34 =$ _____
2. $158 - 115 =$ _____
3. $534 + 699 =$ _____
4. $4 \times 6 =$ _____
5. $21 \div 3 =$ _____
6. LXVIII = _____ (Arabic numerals)
7. Round 5846 to the nearest ten's place. _____
8. $13 + 17 + 16 =$ _____
9. $68 \times 5 =$ _____
- * 10. $845 + 731 + 913 + 1413 =$ _____
11. $70 \times 60 =$ _____
12. $8 + 9 + 10 + 11 + 12 =$ _____
13. $37 \times 11 =$ _____
14. $9587 - 6390 =$ _____
15. $4 \times 3 \times 2 =$ _____
16. $(5 \times 100) + (6 \times 1000) =$ _____
17. $2023 + 1917 =$ _____
18. $432 \div 8 =$ _____
19. What is the product of the digits in the ten's place and hundred's place of 54,387? _____
- * 20. $704 \times 495 =$ _____
21. $\frac{3}{4} - \frac{1}{4} =$ _____ (fraction)
22. Which is larger: $\frac{7}{9}$ or $\frac{5}{7}$? _____
23. $48 \times 52 =$ _____
24. $60\% =$ _____ (fraction)
25. What is the smallest prime number greater than 13?

26. $37.85 + 11.55 =$ _____ (decimal)
27. $25 \times 19 =$ _____
28. $52 - 13 \times 4 =$ _____
29. One-third of a foot is _____ inches
- * 30. $314597 \div 792 =$ _____
31. $71 \times 79 =$ _____
32. Write $\frac{17}{50}$ as a decimal. _____
33. $1.2 \times 1.2 =$ _____ (decimal)
34. If 2 pies cost \$4.10, how much will 8 pies cost?
\$ _____
35. The LCM of 15 and 25 is _____
36. 5 is to 9 as 20 is to _____
37. How many pints are in one gallon? _____
38. $32 \div 0.4 =$ _____
39. $85^2 =$ _____
- * 40. $\sqrt{157849} =$ _____
41. $6\frac{1}{8} + 2\frac{1}{4} =$ _____ (mixed number)
42. 122 (base 4) = _____ (base 10)

PSIA — Number Sense – 2023 – Grades 4-5

43. The perimeter of a rectangle whose length is 17 inches and width is 4 inches is _____ inches
44. If $M = 7$, then $2M - 1 =$ _____
45. 25 centimeters = _____ meters (fraction)
46. $2 + 4 + 6 + 8 + \dots + 22 =$ _____
47. $3\frac{2}{5} \times 2\frac{2}{5} =$ _____ (mixed number)
48. The 10th term in the sequence 3, 6, 9, 12, ... is _____
49. $\sqrt{81} =$ _____
- * 50. $251\pi^5 =$ _____
51. Gasoline costs \$3.65 per gallon. How much will 8 gallons of gas cost? \$ _____
52. 40% of 130 is _____
53. A triangle with base 9 mm and height 14 mm has an area of _____ mm^2
54. $\frac{9}{11} + \frac{11}{9} =$ _____ (mixed number)
55. If $2x - 13 = 1$, then $x =$ _____
56. $\frac{14}{15} \times \frac{5}{7} =$ _____
57. $19^2 - 11^2 =$ _____
58. 3 square feet = _____ square inches
59. Set $A = \{p, o, i, n, t\}$. How many total subsets of A are there? _____
- * 60. $125 \times 483 =$ _____
61. A right triangle has legs of 5 and 12. Its hypotenuse is _____
62. $77 - (-28) =$ _____
63. What percent of 200 is 44? _____ %
64. $5\frac{7}{9} \times 5\frac{2}{9} =$ _____ (mixed number)
65. The multiplicative inverse of $\frac{1}{6}$ is _____
66. $15^2 + 45^2 =$ _____
67. $\frac{1}{3} - \frac{1}{7} =$ _____
68. The area of a rhombus with diagonals 8 inches and 7 inches is _____ square inches
69. $19 - 18 - 17 =$ _____
- * 70. $34 \times 35 \times 38 =$ _____
71. The central angle of a regular hexagon is _____ degrees
72. $111 \times 342 =$ _____
73. The volume of a cube whose sides measure 6 cm is _____ cm^3
74. $26_8 + 35_8 =$ _____ $_8$
75. $5\frac{1}{4} \div \frac{7}{8} =$ _____
76. 12% of 49 is 7% of _____
77. What number is halfway between -18 and -2 on the number line? _____
78. If $7y + 3 \leq 31$, then $y \leq$ _____
79. $\frac{10}{13} \times 10 =$ _____ (mixed number)
- * 80. $(13 + 14 + 15 + 16 + 17)^3 =$ _____

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

- | | | | |
|-------------------------------------|-------------------------------|------------------------------------|-------------------------------------|
| (1) 106 | (22) $\frac{7}{9}$ | (43) 42 | (62) 105 |
| (2) 43 | (23) 2496 | (44) 13 | (63) 22 |
| (3) 1233 | (24) $\frac{3}{5}$ | (45) $\frac{1}{4}$ | (64) $30\frac{14}{81}$ |
| (4) 24 | (25) 17 | (46) 132 | (65) 6 |
| (5) 7 | (26) 49.4 | (47) $8\frac{4}{25}$ | (66) 2250 |
| (6) 68 | (27) 475 | (48) 30 | (67) $\frac{4}{21}$ |
| (7) 5850 | (28) 0 | (49) 9 | (68) 28 |
| (8) 46 | (29) 4 | (50) $72971 - 80651$
[76810.94] | (69) -16 |
| (9) 340 | *(30) $378 - 417$
[397.22] | (51) 29.20 | *(70) $42959 - 47481$
[45220] |
| *(10) $3707 - 4097$
[3902] | (31) 5609 | (52) 52 | (71) 60 |
| (11) 4200 | (32) .34 | (53) 63 | (72) 37962 |
| (12) 50 | (33) 1.44 | (54) $2\frac{4}{99}$ | (73) 216 |
| (13) 407 | (34) 16.40 | (55) 7 | (74) 63 |
| (14) 3197 | (35) 75 | (56) $\frac{2}{3}$ | (75) 6 |
| (15) 24 | (36) 36 | (57) 240 | (76) 84 |
| (16) 6500 | (37) 8 | (58) 432 | (77) -10 |
| (17) 3940 | (38) 80 | (59) 32 | (78) 4 |
| (18) 54 | (39) 7225 | (60) $57357 - 63393$
[60375] | (79) $7\frac{9}{13}$ |
| (19) 24 | *(40) $378 - 417$
[397.30] | (61) 13 | *(80) $400782 - 442968$
[421875] |
| *(20) $331056 - 365904$
[348480] | (41) $8\frac{3}{8}$ | | |
| (21) $\frac{1}{2}$ | (42) 26 | | |