

CONTESTANT ID #: _____

GRADE LEVEL : _____

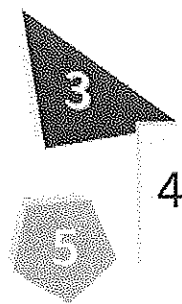
Place Contestant ID label here
AFTER grading



Number Sense

District Contest

Grades 4-5



2022

Grader #1 Score: _____

Grader #2 Score: _____

Grader #3 Score: _____

FINAL SCORE: _____

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

1. $38 - 24 =$ _____
2. $17 + 89 =$ _____
3. $18 \times 2 =$ _____
4. $27 + 27 + 27 =$ _____
5. $90 - 67 + 13 =$ _____
6. Round 4893 to the nearest ten's place. _____
7. $30 \div 5 =$ _____
8. $700 - 250 - 250 =$ _____
9. $738 + 99 =$ _____
- * 10. $51234 + 23978 - 17973 =$ _____
11. XXIII = _____ (Arabic numerals)
12. What is the largest 3-digit number that has a "7" in the ten's digit? _____
13. $11 \times 15 =$ _____
14. $2022 - 1476 =$ _____
15. $300 + 30 + 330 + 303 =$ _____
16. $70 \times 30 =$ _____
17. $100 \div 4 =$ _____
18. How many even numbers are there between 11 and 23? _____
19. The remainder when 237 is divided by 5 is _____
- * 20. $407 \times 298 =$ _____
21. $27 + 3 \times 2 =$ _____
22. $\frac{7}{8} \times \frac{4}{5} =$ _____
23. The LCM of 18 and 20 is _____
24. $4.35 + 3.45 =$ _____ (decimal)
25. Which is smaller: $\frac{1}{5}$ or $\frac{3}{14}$? _____
26. 2 gallons = _____ quarts
27. $49 \times 51 =$ _____
28. $18 \div 24 =$ _____ (fraction)
29. $65\% =$ _____ (fraction)
- * 30. $184734 \div 196 =$ _____
31. 1.575 kilometers = _____ meters
32. The only prime number between 90 and 100 is _____
33. $408 \div 102 =$ _____
34. $(16 + 8) \times 5 =$ _____
35. $7.2 \times 0.04 =$ _____ (decimal)
36. Each peach costs 63¢. How much will 9 peaches cost?
\$ _____
37. Kenny had 48 carnival tickets. He spent 16 of them. What fraction of his tickets remains?
_____ (fraction)
38. $\frac{1}{12} + \frac{7}{12} - \frac{5}{12} =$ _____ (fraction)
39. $79 \times 12 =$ _____
- * 40. $\sqrt{245025} =$ _____
41. If $c = 4$, then $3c - 2 =$ _____

42. $5\frac{1}{3} \times 1\frac{1}{3} =$ _____ (mixed number)
43. 9 quarters + 8 dimes = \$ _____
44. $\frac{12}{25} \div \frac{3}{5} =$ _____
45. If $F = \{f, i, r, s, t\}$ and $S = \{s, e, c, o, n, d\}$, how many elements are in $F \cup S$? _____
46. $53^2 - 52^2 =$ _____
47. The area of a rectangle is 108 cm^2 . Its width is 4 cm. Its length is _____ cm
48. $1\frac{5}{6}$ feet = _____ inches
49. 34 (base 8) = _____ (base 10)
- * 50. $21\frac{1}{2} \times 31\frac{1}{2} =$ _____
51. The 12th term in the sequence 1, 3, 5, 7, ... is _____
52. $47^2 =$ _____
53. 50% of 44 is _____
54. $6\frac{2}{7} \times 6\frac{5}{7} =$ _____ (mixed number)
55. Each wooden plank is 1.75 inches thick. How tall is a stack of 44 planks? _____ inches
56. $\frac{9}{11} + \frac{11}{9} =$ _____ (mixed number)
57. $2592 \div 4 =$ _____
58. $47 \times 111 =$ _____
59. A circle has a radius of 18 inches. Its circumference is $k\pi$ cm and $k =$ _____
- * 60. $583 \times 359 =$ _____
61. $(-4)^3 =$ _____
62. $\frac{1}{7} - \frac{1}{9} =$ _____
63. $104 \times 108 =$ _____
64. $\frac{33 - 5 \times 5}{4} =$ _____
65. How many diagonals does a regular hexagon have? _____
66. $15^2 + 45^2 =$ _____
67. A parallelogram has base of 12 yd and a height of 15 yd. Its area is _____ yd^2
68. A pizza normally costs \$16.00. It is on sale for 25% off. Its sale price is \$ _____
69. $12 - 18 + 24 - 30 + 36 - 42 =$ _____
- * 70. $445 \div 0.0725 =$ _____
71. $35_9 + 48_9 =$ _____₉
72. $\sqrt{2809} =$ _____
73. How many positive integral divisors does 20 have? _____
74. $3 \times 7 \times 12 \times 37 =$ _____
75. Tiles numbered 1 through 8 are in a hat. A tile is drawn. What is the probability the number is odd? _____
76. $625 \times 48 =$ _____
77. $6\frac{2}{3} \div 7\frac{1}{2} =$ _____ (fraction)
78. How far is -21 from -8 on a number line? _____
79. The multiplicative inverse of 8 is _____ (decimal)
- * 80. $27 \times 93 \div 1.333 =$ _____

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

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|-------------------------------------|-------------------------------|-------------------------------------|----------------------------------|
| (1) 14 | (23) 180 | (42) $7\frac{1}{9}$ | (62) $\frac{2}{63}$ |
| (2) 106 | (24) 7.8 | (43) 3.05 | (63) 11232 |
| (3) 36 | (25) $\frac{1}{5}$; .2 | (44) $\frac{4}{5}$; .8 | (64) 2 |
| (4) 81 | (26) 8 | (45) 10 | (65) 9 |
| (5) 36 | (27) 2499 | (46) 105 | (66) 2250 |
| (6) 4890 | (28) $\frac{3}{4}$ | (47) 27 | (67) 180 |
| (7) 6 | (29) $\frac{13}{20}$ | (48) 22 | (68) 12.00 |
| (8) 200 | | (49) 28 | (69) -18 |
| (9) 837 | *(30) $896 - 989$
[942.52] | *(50) $644 - 711$
[677.25] | *(70) $5832 - 6444$
[6137.93] |
| *(10) $54378 - 60100$
[57239] | (31) 1575 | (51) 23 | (71) 84 |
| (11) 23 | (32) 97 | (52) 2209 | (72) 53 |
| (12) 979 | (33) 4 | (53) 22 | (73) 6 |
| (13) 165 | (34) 120 | (54) $42\frac{10}{49}$ | (74) 9324 |
| (14) 546 | (35) .288 | (55) 77 | (75) $\frac{1}{2}$; .5 |
| (15) 963 | (36) 5.67 | (56) $2\frac{4}{99}$ | (76) 30000 |
| (16) 2100 | (37) $\frac{2}{3}$ | (57) 648 | (77) $\frac{8}{9}$ |
| (17) 25 | (38) $\frac{1}{4}$ | (58) 5217 | (78) 13 |
| (18) 6 | (39) 948 | (59) 36 | (79) .125 |
| (19) 2 | *(40) $471 - 519$
[495] | *(60) $198833 - 219761$
[209297] | *(80) $1790 - 1977$
[1883.72] |
| *(20) $115222 - 127350$
[121286] | (41) 10 | (61) -64 | |
| (21) 33 | | | |
| (22) $\frac{7}{10}$; .7 | | | |