CONTESTANT ID #:	
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Place Contestant ID Label HERE AFTER Test has been Scored.

GRADE LEVEL:



Number Sense DISTRICT Contest Grades 6-8



2017

Grader #1 Score	:
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Grader	#2	Score.	

FINAL SCORE:

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

<u> </u>			

District Test

1. 498 + 327 = _____

2. 2017 + 2017 + 2017 = _____

3.
$$\frac{5}{6} \times 42 =$$

7.
$$16^2 =$$

8.
$$75 + 80 + 85 + 90 + 95 =$$

11.
$$14 \div 2 - 3 \times 2 =$$

13. Which is larger:
$$\frac{5}{7}$$
 or $\frac{4}{5}$?

14.
$$25 \times 72 =$$

16.
$$\frac{5}{8} - \frac{1}{3} =$$

17.
$$31 \times 24 + 19 \times 24 =$$

23. If
$$n = 5$$
, then $7n - 2 =$

25.
$$\sqrt{81} =$$

27.
$$24 - 9 \times 4 =$$

28.
$$555 \times 7 =$$

32.
$$5\frac{1}{7} \times 2\frac{1}{7} =$$
 (mixed number)

33. If
$$6x - 3 = 15$$
, then $x =$

34.
$$7\frac{1}{4}$$
 meters = _____ centimeters

36.
$$2\frac{2}{5} + 4\frac{4}{5} =$$
 (mixed number)

38.
$$0.49 \times 0.51 =$$
 ______(decimal)

42. The area of a circle is
$$49\pi$$
. What is the diameter?

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43.
$$33\frac{1}{3} \times 12 =$$

- 44. If $3 2x \le 5$, then $x \ge$
- 45. 97 × 94 = _____
- 46. How many total subsets does the set $\{1, 3, 7, 5\}$ have?
- 47. The sum of the positive integral divisors of 300 is
- 48. 46² = _____
- 49. $\frac{11}{15} + \frac{15}{11} =$ (mixed number)
- * 50. $\sqrt{676869} =$
 - 51. The area of a rhombus whose diagonals are 8 cm and 9 cm is ______ cm²
 - 52. $2\frac{1}{2}\% =$ _______(fraction)
 - 53. $8^3 7^3 7^3 + 6^3 =$
 - 54. The hypotenuse of a right triangle whose legs are 5 and 12 is
 - 55. 234 (base 5) = _____(base 10)
 - 56. Each exterior angle of a regular nonagon measures _______degrees
 - 57. $(51 \times 7 + 15) \div 8$ has a remainder of _____
 - 58. The volume of a cube whose sides measure 5 feet is cubic feet
 - 59. $11\frac{11}{12} \div 4\frac{1}{3} =$ (mixed number)
- * 60. $13\pi^3 =$
 - 61. 11² + 33² = _____

- 62. 101 × 373 = _____
- 63. Find the slope of the line that passes through the points (3,7) and (-2,27).
- 64. The decimal value of $\frac{1}{45}$ is 0. (4 decimal places)
- 65. The volume of a right circular cylinder is 108π cm³. If the height is 12 cm, what is the radius?
- 66. What is the y-intercept of 2x 7y = 14?
- 67. $1 2[3 (4 \times 5) 6] =$
- 68. 60 miles per hour = _____ feet per second
- 69. A pair of dice are tossed. What is the probability of getting a sum of 11?
- * 70. 1428 × 42.8 = _____
 - 71. $\frac{576}{625} =$ (decimal)
 - 72. The x-coordinate of the vertex of $y = 3x^2 24x + 17$ is _____
 - 73. $\frac{5^4 \times 5^2}{5^3} =$
 - 74. 10% less than 34 is ______(decimal)
 - 75. If $\sqrt{x} = 7$, then $x 2\sqrt{x} + 1 =$ _____
 - 76. 34₆ × 3₆ = ______6
 - 77. The 7th triangular number is _____
 - 78. If f(x) = 6x 8, then f(-3) =
 - 79. The sum of the roots of $x^2 + 9x 10 = 0$ is _____
- * 80. $\sqrt{1} + \sqrt{2} + \sqrt{3} + \sqrt{4} + ... + \sqrt{100} =$

(22) 48

(42) 14

*(80) 638 - 705

[671.46]

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

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(1) 825	(23) 33	(43) 400	(62) 37673
(2) 6051	(24) 55	(44) -1	(63) -4
(3) 35	(25) 9	(45) 9118	(64) 0222 Also accept 0223
(4) 761	(26) 10	(46) 16	-
(5) 90	(27) –12	(47) 868	(65) 3
(6) 451	(28) 3885	•	(66) -2
(7) 256	(29) 10.00	(48) 2116	(67) 47
(8) 425	not 10	(49) $2\frac{16}{165}$	(68) 88
(9) 297	*(30) 79 – 86 [82.75]	*(50) 782 – 863 [822.72]	(69) $\frac{1}{18}$
*(10) 3873 – 4279 [4076]	(31) 2		
(11) 1	(32) $11\frac{1}{49}$	(51) 36	*(70) 58063 – 64174 [61118.4]
(12) 960	•	(52) $\frac{1}{40}$	(71) .9216
(13) $\frac{4}{5}$; .8	(33) 3	(53) 42	(72) 4
(14) 1800	(34) 725	(54) 13	(73) 125
(15) 10	(35) 66	(55) 69	(74) 30.6
(16) $\frac{7}{24}$	$(36) \ 7\frac{1}{5}$	(56) 40	
(17) 1200	(37) -7	(57) 4	(75) 36
(18) 3	(38) .2499		(76) 150
(19) 84	(39) 13	(58) 125	(77) 28
*(20) 407115 – 449969 [428542]	*(40) 10095 – 11157 [10626]	(59) $2\frac{3}{4}$	(78) –26
(21) 14	(41) 36	*(60) 383 – 423 [403.08]	(79) -9

(61) 1210