

The University of Texas Interscholastic League

Note: If error is found in this key, grading should be done by correct answer.
The state office will appreciate a report of any error found.

Answer Key—Number Sense Test VV-A	Answer Key—Number Sense Test VV-B	Answer Key—Number Sense Test VV-C	Answer Key—Number Sense Test VV-D
1. 495	1. 11312	1. 8421	1. 95
2. 775	2. 4/5 or .8	2. 9	2. 12
3. 25 2/3	3. -396	3. -68	3. 54/9
4. 260	4. 2150	4. 187	4. 725
5. 1024	5. 48	5. 48/7 or 6 6/7	5. 624
6. 2245	6. 32/5 or 6 2/5 or 6.4	6. 43 2/9	6. 4230
7. 1.25	7. 1156	7. 5041	7. 75
8. 27.5 or 27 1/2	8. 1397	8. 850	8. 1639
9. 17/500	9. 56 7/9	9. 372	9. 17/5 or 3 2/5 or 3.4
*10. An integer between 38,095-42,103 incl.	*10. An integer between 11,266-12,450 incl.	*10. An integer between 25,769-28,481 incl.	*10. An integer between 376,292-418,112 incl.
11. 56	11. 372	11. 120	11. 29/20
12. 1	12. 29400	12. 1008	12. 1692
13. 2	13. 16	13. 143	13. 3969
14. 286	14. 570	14. 276	14. 240
15. -4/3 or -1 1/3	15. 20X1	15. 12 1/2 or 12.5	15. 57
16. 1600	16. 5.63	16. 256	16. 160
17. 32	17. 875	17. 51.86	17. 1020
18. 515.00	18. 48	18. 60	18. 47/60
19. 27.5 or 27 1/2	19. 144 or 12	19. 96	19. 219
*20. An integer between 38,191-42,211 incl.	*20. An integer between 247-272 inclusive	*20. An integer between 994,203-1,098,855 incl.	*20. An integer between 324-357 inclusive
21. 8	21. 41	21. 8/9	21. 56 3/16 or 899/16
22. 31	22. 3	22. 11	22. 19 1/2 or 19.5
23. 3596	23. 3/8 or .375	23. 52	23. 78
24. 87	24. 451	24. 49	24. 25
25. 24	25. 616	25. 3016	25. 80
26. 38	26. 16	26. 30	26. 2804
27. -√21	27. 300	27. 2	27. 127
28. -2	28. 86	28. 15	28. 2
29. -2	29. 4	29. 3	29. 2
*30. An integer between 144-158 inclusive	*30. An integer between 206-226 inclusive	*30. An integer between 213-234 inclusive	*30. An integer between 705-779 inclusive
31. -3/2 or -1 1/2 or -1.5	31. 123	31. 1011	31. 3/2 or 1 1/2 or 1.5
32. 111	32. 21 1/9 or 190/9	32. 48	32. 7
33. 7	33. 168	33. 38/11	33. 1760
34. 2	34. 13/12 or 1 1/12	34. -2/3	34. 91/90
35. -1	35. 148/990	35. -3	35. 2/3
36. 235/999	36. 15	36. 1	36. 3885
37. 3	37. 50	37. 161	37. 11101
38. -8	38. 2516	38. 50	38. 9
39. √344	39. 19	39. 35	39. 27
*40. An integer between 448,856-496,102 incl.	*40. An integer between 3831-4233 inclusive	*40. An integer between 652-720 inclusive	*40. An integer between 65,475-72,367 incl.
41. 533	41. 7	41. -8	41. 512.87
42. -4	42. 29/99	42. 9	42. 6
43. 4773	43. 4	43. 2	43. 4
44. 2	44. 5/3 or 1 2/3	44. 41	44. 10088
45. 1	45. 6	45. 12	45. 444
46. 26	46. 2	46. 4	46. 21
47. 4	47. 1	47. 12	47. 2√2
48. 60	48. 10	48. -26	48. 56
49. 6	49. 9114	49. 5	49. 10
*50. An integer between 2,035,713-2,249,997 inclusive	*50. An integer between 4039-4463 inclusive	*50. An integer between 26,330-29,100 incl.	*50. An integer between 325,489-359,751 incl.
51. 17.14	51. 3/2 or 1.5 or 1 1/2	51. 2	51. -40
52. 2√2	52. 3	52. 4 or 4ib	52. 111
53. 981	53. 35	53. 3/8 or .375	53. 3
54. 56661	54. 12	54. 2/9	54. 4
55. 3	55. 1	55. 1	55. 5
56. 13	56. 13	56. 3	56. 20
57. 83	57. 1/6	57. 4	57. 5
58. 1	58. 10918	58. 0	58. 48
59. 15x ² y ²	59. 450	59. 10094	59. 7/4 or 1 3/4 or 1.75
*60. An integer between 113-124 inclusive	*60. An integer between 184,757-204,205 incl.	*60. An integer between 60,740-67,132 incl.	*60. An integer between 87,762-97,000 incl.
61. 125	61. 48	61. 62	61. 1/3
62. 1/26	62. 40	62. 21	62. 9/2 or 4 1/2 or 4.5
63. 2	63. 4/3 or 1 1/3	63. 3/2 or 1 1/2 or 1.5	63. 6
64. 7	64. π (pi)	64. -1	64. 4/9
65. 8	65. -1	65. 18	65. 145
66. -1	66. 0	66. 3/4 or .75	66. 1
67. 7	67. 512	67. 10	67. (x+1)/2 or 1/2 x + 1/2
68. 30	68. -4	68. 4/5 or .8	68. -4
69. 9	69. 3/2 or 1.5 or 1 1/2	69. 3/13	69. 6
*70. An integer between -438 and -398 incl.	*70. An integer between 517-570 inclusive	*70. An integer between 24-26 inclusive	*70. An integer between 4,207,139-4,649,995 inclusive
71. 24/25	71. .625	71. 4	71. 1
72. 3√3/2	72. 2	72. 5	72. 21
73. 5	73. 1	73. 1/2 or .5	73. 2
74. 3	74. 1/4 or .25	74. 1	74. -1/2 or -.5
75. 6	75. 1	75. 3	75. 2
76. 2	76. (x-1)/2 or 1/2 x - 1/2	76. 5	76. 0
77. 8	77. 3	77. 26	77. x ² +1
78. 15/4 or 3 3/4 or 3.75	78. 15/2 or 7 1/2 or 7.5	78. 36	78. 0
79. x ² +x+1	79. 1/2 a	79. 56/3 or 18 2/3	79. 10 [a] + C
*80. An integer between 1330-1470 inclusive	*80. An integer between 1045-1155 incl.	*80. An integer between 254,236-280,996 incl.	*80. An integer between 33-36 inclusive

Answer Key—Number
Sense Test VV-1

1. 2921
2. 693
3. 1075
4. 280
5. 23 8/9
6. 1550
7. 5542
8. 841
9. 75
- *10. An integer between 23066–25494 incl.
11. 7/250
12. 17
13. 13 1/3 or 40/3
14. 2112
15. 14
16. 2/13
17. 1125
18. 18
19. \$16.00
- *20. An integer between 119–131 inclusive
21. 72
22. 1020
23. 3
24. 220
25. 42
26. 9
27. 64
28. -5
29. 107
- *30. An integer between 257–283 inclusive
31. -1
32. 113/999
33. 380
34. $2\sqrt{14}$
35. 26 1/25 or 26.04 or 651/25
36. 11
37. 102
38. -3
39. 1056
- *40. An integer between 3876–4284 incl.
41. 4444
42. 2
43. 5772
44. -1
45. 1/2
46. 4
47. 9114
48. 20
49. 4
- *50. An integer between 3,287,140–3,599,996 incl.
51. -16
52. 2516
53. 37.5 or 37 1/2
54. 16
55. 17
56. 27/8 or 3 3/8
57. 9
58. 1/2 or .5
59. 9
- *60. An integer between 55–60 inclusive
61. 1/2 or .5
62. 6
63. 2
64. $3\sqrt{2}$
65. 1
66. 4
67. 4
68. 1/2 or .5
69. 3
- *70. An integer between 31863–35217 incl.
71. $\sqrt{3}$
72. 1/8
73. 13/25
74. 2
75. $(k-11)/2$ or $1/2 k - 1/2$
76. 29
77. 0
78. 7
79. 3/5 or 6 1/5 or 6.2
- *80. An integer between 760–840 inclusive

Answer Key—Number
Sense Test VV-2

1. 2655
2. 485
3. 31/21
4. 420
5. 1175
6. 34 8/9
7. 1450
8. 343
9. 784
- *10. An integer between 83,781–92,599 incl.
11. 19
12. 16 1/4 or 16.25
13. 3036
14. 9/250
15. 11
16. 3/13
17. 1125
18. 62/5 or 12.2/5 or 12.4
19. 130
- *20. An integer between 201–221 inclusive
21. 2
22. 108
23. 164
24. 1080
25. 28
26. 36
27. 108
28. 2
29. 6
- *30. An integer between 184–202 inclusive
31. 125/999
32. 341
33. 13/2 or 6 1/2 or 6.5
34. 25/3 or 8 1/3
35. 28 4/25 or 704.25 or 28.16
36. 7
37. 18
38. 102
39. 1760
- *40. An integer between 7581–8379 incl.
41. 44
42. 6549
43. 4
44. 33/90
45. -3
46. 9312
47. 9
48. 2
49. 7
- *50. An integer between 3,664,283–4,049,996 inclusive
51. -18
52. 21.1
53. 1909
54. 5
55. 21
56. 8/5 or 1 3/5 or 1.6
57. 64
58. 1
59. 125
- *60. An integer between 55–60 inclusive
61. 1/3
62. 10
63. 3
64. 1/2 or .5
65. 4
66. 6
67. 7
68. 8/3 or 2 2/3
69. 2
- *70. An integer between 42,463–46,923 incl.
71. 4
72. 1/8
73. 9/25
74. 3
75. $(x+1)/5$ or $1/5 x - 1/5$
76. 0
77. 125
78. 6
79. 81/4 or 20 1/4 or 20.25
- *80. An integer between 3040–3360 incl.

Answer Key—Number
Context VV-3

1. 11736
2. 51
3. -297
4. 47 1/9
5. 600
6. 264
7. 1764
8. 14
9. 28/5
- *10. An integer between 265715–293685 incl.
11. 10775
12. 16.5 or 16 1/2 or 32/2
13. 1728
14. 209
15. \$1.92
16. .24 not 0.24
17. 4
18. 1591
19. 42
- *20. An integer between 152981–168421 incl.
21. 2
22. 138
23. 870
24. 1
25. 4209
26. 7
27. 25
28. 204
29. 12
- *30. An integer between 219–241 inclusive
31. 72 4/25
32. 31
33. 52
34. 34/333
35. 100
36. 8
37. 132
38. $9\sqrt{3}$
39. 26
- *40. An integer between 969–1071 incl.
41. 23
42. 7
43. 3885
44. 3
45. 13
46. -7
47. 18
48. 2
49. 3149
- *50. An integer between 10437–11530 incl.
51. 10
52. 30
53. 120
54. 5
55. 10920
56. 3
57. 6
58. 1
59. $2a^2$
- *60. An integer between 996148–1101004 incl.
61. 6
62. 4
63. 3
64. 18
65. 15
66. 24
67. 1/9
68. 64
69. 6
- *70. An integer between 717402–792918 incl.
71. 16
72. 4
73. 5
74. .15 not 0.15
75. 2
76. 6
77. 2
78. 10
79. 0
- *80. An integer between 683–737 inclusive

Answer Key—Number
Context VV-4

1. 9879
2. 1350
3. 7/80
4. -495
5. 700
6. 36 1/5
7. 94
8. 2809
9. 26/3
- *10. An integer between 130433–144165 incl.
11. 26.3 or 26 3/10
12. 59
13. 444
14. 5/23
15. 1728
16. 780
17. 84
18. 25
19. 3584
- *20. An integer between 601–663 incl.
21. 225
22. 32
23. 3
24. 196
25. 300
26. 1
27. 462
28. 25
29. 3552
- *30. An integer between 36495–40340 incl.
31. 68
32. 2009
33. 212
34. 5/18
35. 8
36. 4/5 or .8
37. 42 2/9
38. -1/2 or -.5
39. .5 not 0.5
- *40. An integer between 726143–802579 incl.
41. 9312
42. 5
43. 2736
44. 5
45. 7
46. 4
47. 3/16 or .3125
48. 2
49. 35
- *50. An integer between 115–127 inclusive
51. 10080
52. 1/4 or .25
53. 8
54. $\sqrt{3}$
55. 7
56. 13
57. 3
58. 3
59. 1
- *60. An integer between 315572–348790 incl.
61. 1
62. 450
63. 55
64. 81
65. 120
66. $\sqrt{3/2}$
67. 38
68. 7
69. 1/12
- *70. An integer between 142486–157484 incl.
71. -11
72. 7/12
73. 3
74. 48
75. 1/2 x or x/2
76. 8
77. 512
78. 4
79. 3/2 or 1 1/2 or 1.5
- *80. An integer between 123805–136837 incl.