



Grade 7/8 Math Circles
February 8th, 2012

Speedy, Speedy Arithmetics — Answers to the exercises

1. No
2. Yes
3. Yes
4. Yes
5. 2,5,8
6. 235,240,245,250,255,260,265

7. 34562
8. 5676
9. 7425
10. 35178
11. 36718
12. 7149527
13. 440242
14. 8516750
15. 973808
16. 117522823

17. 1003068
18. 22593
19. 200328
20. 6801374

21. 20824
22. 29523030

23. 156
24. 315
25. 736
26. 2176
27. 972
28. 6142
29. 1272
30. 3496
31. 3905
32. 1190
33. 7298
34. 3015
35. 854
36. 3157
37. 783
38. 4134
39. 3402
40. 3564
41. 323400
42. 1768000
43. 33418
44. 374616

45. 1530
46. 610
47. 94900

48. 3168500
49. 11925
50. 10208000
51. 166
52. 191
53. 44
54. 885

55. 166
56. 2556
57. 6117
58. 1441
59. 1887
60. 16663
61. 198
62. 72152
63. 139
64. -5004
65. 51272
66. 1408

67. 121
68. 196
69. 169
70. 225
71. 324
72. 361
73. 289
74. 144

75. 400

76. 256

77. 2025

78. 5625

79. 11025

80. 105625

81. 162409

82. 6398240121

83. 34969

84. 4044121

85. 4

86. $\frac{1}{22}$

87. 12 Quarters

88. 8960 minutes = Approximately 149.3 hours = Approximately 6 days and 5 hours