

A+Click SMS

Everything should be made as short as possible, but no shorter.

SMS stands for Short Math Situation. Don't confuse with Short Message Service (SMS), which is used as an acronym for all types of short text messaging. If the length of the SMS text messages is limited to 140 characters, then the math and logic questions are limited to 64 characters. This collection presents the best short puzzles adapted to the SMS format from the website www.aplusclick.com. Click on the icon  to go to the website and see the answer.

Numbers



1. Find 4 different integers if their product is 792. 
2. Find the average of the smaller of 2 random numbers from 0 to 1. 
3. Find the average of the smaller of 3 random numbers from 0 to 1. 
4. Find the hundreds digit of the product: 4444444×9999999 . 
5. Find the largest 2-digit perfect number. 
6. Find the smallest 10-digit integer where only 2 digits are the same. 
7. Find the smallest integer that is 4 times the sum of its digits. 
8. Find the smallest number divisible by all numbers from 1 to 20. 
9. Find the smallest sum of 2 integers if their product is 1000. 
10. How many \$1 bills are numbered from AB01234567 to AB11111111? 
11. How many 0s are at the end of the product of 2-digit integers? 
12. How many 11-digit numbers can you make using 0 and 1? 

13. How many 2-digit integers have a sum of the digits equals 10? 
14. How many 3-digit numbers have 5 divisors including 1? 
15. How many 4-digit passwords are possible if I use only 2 digits? 
16. How many 5-digit passwords are the same backwards and forwards? 
17. How many 7-digit phone numbers are there? 
18. How many digits are there in a binary presentation of 999? 
19. How many digits are there in the result of 1001 power 11? 
20. How many digits did I write to number 100 pages? 
21. How many three-digit multiples of 7 end with digit 4? 
22. How many three-even-digit numbers are divisible by 9? 
23. How many zeros are there at the end of 99! ? 
24. Please make 121 by using three 5s as any math operators. 
25. The number A4321 is divisible by 9. Find the digit A. 
26. Using 8 eights and addition only, please reach 1000. 
27. What is the largest digit in the product of 11111111 x 11111111? 
28. What is the largest product of integers that add up to 17? 
29. What is the largest sum of two integers which product is 787? 
30. What is the last digit of the number 7 power 77? 
31. What is the sum of the digits of all 2-digit numbers? 
32. What is the sum of the first 99 consecutive integer numbers? 
33. What is the units digit of $1! + 2! + 3! + \dots + 2012!$? 
34. What sum of 2 digits is best to bet on? 
35. Which 3-digit number has the greatest number of divisors? 
36. Which digit do I use less if I number 999 pages? 
37. Which product of 2 random dice numbers is best to bet on? 
38. Work out the sum of all of the integers below 100. 

Word Problems



39. 3 apples in pairs weigh 200, 204, and 208. Find their weights. 
40. $52 - 28 = 4$ Which digit do I move to make the equation correct? 
41. 99% of N nuts and 99% of a nut cost as much as all nuts. Find N. 
42. A Z D W G. Find the next letter in the sequence. 
43. At least 2 Londoners have the same number of hairs. True or False? 
44. Counting from 11 by 1, which number comes next? It is not 12. 
45. Divide \$1234 into the ratio 1:2:3:4. 
46. Find 2 fractions made of 10 different digits. They add up to 1. 
47. Find the odd one out: DEMON FIRST FORTY GHOST 
48. For which capital letter would you use more paint? 
49. Four cowboys fired once. What is the probability that all are dead? 
50. Guesstimate the number of your ancestors in 200 years. 
51. How many 4-digit pass codes are there? All digits are different. 
52. How many Ancient Olympic Games were held from 776 BC to 393 AD? 
53. How many apples were sold if 33, or 11% of the total, are left. 
54. How many handshakes take place at a meeting with 100 men? 
55. How many one-dollar bills completely cover a square mile? 
56. How many small pieces of cheese can you get by using only 5 cuts? 
57. How many tennis balls can fit in a school bus? 
58. How many times do clock's hands overlap in a day? 

59. How many times heavier than a rabbit is an elephant? 
60. How many trials are needed to identify 3 keys for 3 keyholes? 
61. How much does an item cost after 3 successive discounts of 20%? 
62. How much is a \$16 umbrella after two 5% markdowns? 
63. How do you split \$4, \$5, and \$6 in a ratio of 1:2:3? 
64. How would you measure 4 liters with 3 and 5 liter buckets? 
65. I buy 5 eggs for \$1 and sells 1egg for \$5. What is my profit? 
66. I met two kittens. What is the probability that they are boys? 
67. If 3 kids eat 3 peas in 33 seconds, how long do 9 kids eat 19? 
68. If you live for 100 years, how many times will your heart beat? 
69. Make 33 by using three 3s and any math operators. 
70. O T T F F S S. What is the next letter in this series? 
71. One of 240 coins is odd. How do you use a scale to find it? 
72. The time left today is half of the time passed. What is the time now? 
73. Tom's income and spending are $\frac{7}{8}$ that of Tim. Who saves more? 
74. What is the probability that one of 3 idiots survives in a duel? 
75. What is the probability that two random dominos match? 
76. What number of spots appears more frequently on dominoes? 
77. What occurs once in a minute, twice in a week, and once in a year? 
78. Which days of the week occurred more frequently in 2012? 

Spatial Thinking



79. How many triangles can I make with six line segments on a plane? 
80. Cut a rectangle with a round hole into two equal-area parts. 
81. Estimate the height of a lighthouse from which I can see 11 km. 
82. Find the angle between two diagonals of a cube. 
83. Find the maximum number of intersection points of N circles. 
84. How do you cut a round cheese into 8 equal pieces with 3 cuts? 
85. How many 1x2x3 boxes can be packed into a 5x6x7 box? 
86. How many crosspieces do I need to separately enclose 4 lambs? 
87. How many inner right angles are possible in a hexagon? 
88. How many planes of symmetry does a cube have? 
89. How many planes of symmetry does an Egyptian pyramid have? 
90. How many separate regions do three overlapping triangles form? 
91. How many squares can be formed using seven matchsticks? 
92. How many squares can I form with 8 matchsticks and no overlap? 
93. How many squares can you make using twelve matches? 
94. How much paper is needed to entirely cover a 40x30x12 box? 
95. How much ribbon do you need to wrap around a 12x30x40 box? 
96. How thick is a plate of 200 hairs with a diameter of 0.02 mm? 
97. I cut and fold a shape of 1 m². What is the largest volume? 
98. Is it possible to plant 10 trees in 5 rows of 4 trees? 
99. What area does a line cover? It is 0.25 mm thick and 8 km long. 
100. What is the angle between the hour and minute hands at 14:20? 