



Problems 1-80

Name: _____

School: _____

Grade: _____

Correct: _____

Incorrect: _____

SCORE: (5 x Correct - 4 x Incorrect =) _____

Scorer's Initials: _____

Scorer's Initials: _____

DO NOT BEGIN UNTIL YOU ARE INSTRUCTED TO DO SO

This is a 10-minute test. There are 80 problems. Solve accurately and quickly as many as you can in the order in which they appear. **ALL PROBLEMS ARE TO BE SOLVED MENTALLY.** Make no calculations with paper and pen/pencil. Write only the answer in the space provided for each problem. Answers must be complete, legible, and simplified to lowest terms. You are not allowed to use calculators, slide rules, books, or any other aids during this round.

Every tenth problem, marked with an asterisk (*), is an estimation problem which requires approximate integer answers. Any answer to an estimation problem that is within five percent of the correct answer will be scored correct.

Scoring: Five points will be awarded for every correct answer. For every incorrect answer or skipped problem, four points will be deducted. No deduction is taken after the last problem attempted. **Erasures, mark-overs, mark-outs, and extraneous marks on the paper ARE counted as INCORRECT.**

DO NOT WRITE ON THIS PAGE

DO NOT WRITE ON THIS PAGE

DO NOT WRITE ON THIS PAGE

DO NOT WRITE ON THIS PAGE

DO NOT WRITE ON THIS PAGE

DO NOT WRITE ON THIS PAGE

DO NOT WRITE ON THIS PAGE

DO NOT WRITE ON THIS PAGE

DO NOT WRITE ON THIS PAGE

DO NOT WRITE ON THIS PAGE

DO NOT WRITE ON THIS PAGE

DO NOT WRITE ON THIS PAGE

DO NOT WRITE ON THIS PAGE

DO NOT WRITE ON THIS PAGE

DO NOT WRITE ON THIS PAGE

DO NOT WRITE ON THIS PAGE

DO NOT WRITE ON THIS PAGE

1. $43 + 15 =$ _____
2. $7 \times 5 =$ _____
3. $100 - 79 =$ _____
4. $63 \div 7 =$ _____
5. $72 + 23 =$ _____
6. $200 - 37 =$ _____
7. $9 \times 8 =$ _____
8. $39 \div 3 =$ _____
9. $321 - 123 =$ _____
10. (*) Estimate the value of the sum of the first 41 natural numbers ($1 + 2 + 3 + 4 + \dots + 38 + 39 + 40 + 41$) _____
11. $(1 \times 8) + (10 \times 3) + (100 \times 4) =$ _____
12. $2 \times 3 \times 4 \times 5 \times 6 \times 7 \times 8 \times 9 \times 0 =$ _____
13. $978 + 879 =$ _____
14. $4321 - 1234 =$ _____
15. $4032 + 2043 + 3024 =$ _____
16. $(10 \times 7) + (100 \times 9) + (1 \times 2) + (1000 \times 6) =$ _____
17. $(5 \times 5) - (4 \times 4) =$ _____
18. $75 + 87 - 70 - 80 =$ _____
19. $500 \times 60 =$ _____
20. (*) Estimate the value of $(89 + 131 + 579 + 811 + 348)$ _____
21. $4 + 6 \times 8 + 7 =$ _____
22. $1 + 3 + 5 + 7 + 9 + 11 + 13 + 15 =$ _____

23. $9999 + 1111 =$ _____
24. $(22 \div 2) \times (5 + 4) =$ _____
25. $124 + 153 + 172 - 150 - 170 - 120 =$ _____
26. $21 + 3 \div 3 =$ _____
27. What is the second smallest odd prime number? _____
28. $624 \div 3 =$ _____
29. What is the next term in the sequence 7, 14, 21, 28, ... ? _____
30. (*) Estimate the value of $776655 \div 111$ _____
31. One-half of what number is seven? _____
32. $3078 \div 6 =$ _____
33. What is the largest even prime number? _____
34. $(5555 \div 5) \times 2 =$ _____
35. What is the remainder when 13579 is divided by 9? _____
36. If 2 songs cost \$1.02, how much does one dozen songs cost? _____
37. $(55 \times 12) \div 5 =$ _____
38. 3 quarters and 4 dimes is equal in value to how many nickels? _____
39. XIII (in Roman numerals) = _____
40. (*) Estimate the value of (204×357) _____
41. What is the remainder when 2768 is divided by 11? _____
42. What is the value of 24 in Roman numerals? _____
43. What number is to 9 as 5 is to 3? _____
44. What is the remainder when 342 is divided by 3? _____

45. One-third of what number is 9? _____
46. Four days equals how many hours? _____
47. Bella was born in 1999. In what year was her 6th birthday? _____
48. How many odd numbers are there between 4 and 24? _____
49. One fourth of what number is 32? _____
50. (*) Estimate the value of $(11 \times 11 \times 11)$ _____
51. How many inches are there in 15 feet? _____
52. How many positive numbers evenly divide 12? _____
53. How many minutes is 11 hours and 11 minutes? _____
54. How many prime numbers are there that are less than 30? _____
55. What is the largest number that evenly divides 24 and 16? _____
56. A square has perimeter 20 meters. What is its area, in square meters? _____
57. What is the smallest integer that is a multiple of 4 and 6? _____
58. $15 \times 15 =$ _____
59. What is the largest integer that evenly divides 35, 63, and 91? _____
60. (*) Estimate the number that, when multiplied by itself, equals 100000. _____
61. $\frac{1}{3}$ of 12 = $\frac{1}{9}$ of what number? _____
62. $99 \times 304 =$ _____
63. What is the area of a square whose side measures 8 inches? _____
64. What positive number multiplied by itself equals 121? _____
65. How many sides does a hexagon have? _____
66. $14 \times 16 =$ _____
67. How many edges does a cube have? _____

68. What percent of 120 is 60? _____ %
69. A regular octagon has sides of length 2. What is the perimeter of the octagon? _____
70. (*) Estimate the value of $(37 \times 40 \times 43)$ _____
71. $0.2 + 0.4 + 0.6 =$ _____ (decimal)
72. $45 \times 45 =$ _____
73. What is the largest whole number that evenly divides 18, 36, and 42? _____
74. Chen has one quarter. Waymond has 1 nickel, two dimes and three pennies. Arvat has four nickels and four pennies. How much money do they all have combined? _____
75. $5/6 - 1/6 =$ _____ (fraction)
76. What is 20% of 250? _____
77. What is the value of (the area of a square with side length 5) minus (the area of a rectangle with width 6 and length 4)? _____
78. 2 meters plus 23 centimeters is how many millimeters? _____
79. Converting from degrees Celsius (C) to degrees Fahrenheit (F) is done using the equation $F = (9 \times C) / 5 + 32$. What degrees Fahrenheit is equal to 10 degrees Celsius? _____
80. (*) Estimate the value of (20905×21106) _____