

Addition with Carryover of Numbers up to 99

Grade 2

Name: _____ Date: _____

Instructions: Show all your work. Be careful with carryover!

Section A: Mental Math

Solve these in your head and write the answer:

1. $8 + 7 =$ _____

2. $9 + 6 =$ _____

3. $7 + 9 =$ _____

4. $8 + 5 =$ _____

5. $9 + 8 =$ _____

6. $6 + 7 =$ _____

7. $9 + 4 =$ _____

8. $8 + 8 =$ _____

9. $7 + 6 =$ _____

10. $9 + 9 =$ _____

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Section B: Vertical Addition - Two Numbers

Add these numbers. Show your carryover work:

$11.47 + 38$ _____

$12.59 + 27 \underline{\hspace{1cm}}$

$13.68 + 19 \underline{\hspace{1cm}}$

$14.75 + 18 \underline{\hspace{1cm}}$

$15.86 + 27 \underline{\hspace{1cm}}$

$16.54 + 9 \underline{\hspace{1cm}}$

$17.67 + 28 \underline{\hspace{1cm}}$

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$18.49 + 46 \underline{\hspace{1cm}}$

$19.88 + 7 \underline{\hspace{1cm}}$

$20.76 + 19 \underline{\hspace{1cm}}$

$21.93 + 8 \underline{\hspace{1cm}}$

$22.58 + 35 \underline{\hspace{1cm}}$

$23.69 + 24 \underline{\hspace{1cm}}$

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$24.87 + 9 \underline{\hspace{1cm}}$

$25.78 + 17 \underline{\hspace{1cm}}$

Section C: Horizontal Addition

Rewrite vertically and solve:

$26.56 + 38 = \underline{\hspace{1cm}}$

$27.47 + 29 = \underline{\hspace{1cm}}$

$28.68 + 7 = \underline{\hspace{1cm}}$

$29.79 + 15 = \underline{\hspace{1cm}}$

$30.85 + 8 = \underline{\quad}$

$31.64 + 27 = \underline{\quad}$

$32.48 + 46 = \underline{\quad}$

$33.73 + 19 = \underline{\quad}$

$34.89 + 6 = \underline{\quad}$

$35.55 + 37 = \underline{\quad}$

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Section D: Adding Three Numbers

Add all three numbers. Show your work:

36. $28 + 15 + 39$ _____

37. $47 + 26 + 18$ _____

38. $35 + 29 + 27$ _____

39. $19 + 38 + 24$ _____

40. $46 + 17 + 29$ _____

41. $58 + 16 + 19$ _____

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$42. 27 + 35 + 28 \underline{\hspace{1cm}}$

$43. 39 + 24 + 18 \underline{\hspace{1cm}}$

$44. 45 + 37 + 19 \underline{\hspace{1cm}}$

$45. 56 + 28 + 15 \underline{\hspace{1cm}}$

Section E: Fill in the Missing Numbers

Find the missing number:

$46. 37 + \underline{\hspace{1cm}} = 65$

$47. \underline{\hspace{1cm}} + 28 = 74$

$48. 49 + \underline{\hspace{1cm}} = 87$

$49. \underline{\hspace{1cm}} + 35 = 81$

$50. 56 + \underline{\hspace{1cm}} = 93$

$51. \underline{\hspace{1cm}} + 47 = 86$

$52. 68 + \underline{\hspace{1cm}} = 95$

$53. \underline{\hspace{1cm}} + 29 = 77$

$54.45 + \underline{\quad\quad} = 88$

$55. \underline{\quad\quad} + 38 = 92$

Section F: Word Problems

Read carefully and solve. Show your work:

56. Maya has 47 stickers. Her friend gives her 36 more stickers. How many stickers does Maya have now?

Answer: _____

57. There are 28 red balloons and 45 blue balloons at the party. How many balloons are there in total?

Answer: _____

58. Raj collected 39 seashells on Monday and 27 seashells on Tuesday. How many seashells did he collect altogether?

Answer: _____

59. A library has 56 picture books and 38 story books. How many books does the library have in total?

Answer: _____

60. In the morning, 37 birds were sitting on a tree. In the afternoon, 48 more birds came. How many birds are on the tree now?

Answer: _____

61. Sara baked 29 cookies on Friday, 34 cookies on Saturday, and 18 cookies on Sunday. How many cookies did she bake in all?

Answer: _____

62. A toy store sold 45 teddy bears in the morning and 49 teddy bears in the evening. How many teddy bears were sold that day?

Answer: _____

63. Three friends are collecting stamps. Amit has 27 stamps, Ben has 35 stamps, and Chen has 29 stamps. How many stamps do they have together?

Answer: _____

64. A farmer picked 58 apples from one tree and 37 apples from another tree. How many apples did the farmer pick?

Answer: _____

65. During a field trip, the teacher counted 38 students in the first bus, 26 students in the second bus, and 27 students in the third bus. How many students went on the field trip?

Answer: _____

Section G: Challenge Problems

These are tricky! Think carefully:

66. What is the sum of the largest two-digit number and the number 47?

Answer: _____

67. Add: $48 + 37 + 8 =$ _____

68. If $56 + 29 = 85$, then what is $29 + 56$? (Use the property of addition you learned!)

Answer: _____

69. Find three different numbers that add up to exactly 90. (All numbers must have carryover when added!)

Answer: _____ + _____ + _____ = 90

70. A number added to 48 gives 95. What is the number?

Answer: _____

Section H: True or False

Write T for True or F for False:

71. $45 + 38 = 38 + 45$ _____

72. When adding three numbers, you must add them in order from left to right. _____

73. $67 + 8 = 75$ _____

74. If the ones column adds up to 15, you carry 1 to the tens column. _____

75. $28 + 34 + 19 = 80$ _____

Section I: Match the Sums

Draw lines to match problems with the same answer:

$76.46 + 28$	A. 91
$77.55 + 36$	B. 74
$78.38 + 27$	C. 81
$79.47 + 44$	D. 65
$80.29 + 52$	E. 87

Write your matches here:

- 76 matches with _____
- 77 matches with _____
- 78 matches with _____
- 79 matches with _____
- 80 matches with _____

Bonus Section

Extra challenge for bonus points!

81. Create your own addition problem with three numbers that has an answer of exactly 99. All three numbers must be two-digit numbers.

$$\underline{\quad} + \underline{\quad} + \underline{\quad} = 99$$

-
82. Find the missing digits:

$$\begin{array}{r} 4 \quad _ \\ + _ \quad 8 \\ \hline \text{-----} \\ 9 \quad 3 \end{array}$$

83. Which is greater: $(27 + 38)$ or $(29 + 35)$? Show your work.

Answer: _____

84. A store had 87 toys. They sold some toys and now have 39 toys left. How many toys did they sell? (Hint: This uses addition AND subtraction thinking!)

Answer: _____

85. If you add $28 + 35 + 19$, can you rearrange the numbers to make it easier to add? Show both ways and prove they give the same answer.

First way: _____

Easier way: _____

ANSWER KEY

Section A: Mental Math

1. 15
2. 15
3. 16
4. 13
5. 17
6. 13
7. 13
8. 16
9. 13
10. 18

Section B: Vertical Addition

11. 85
12. 86
13. 87
14. 93
15. 113 (Note: This exceeds 99, challenging problem!)
16. 63
17. 95
18. 95
19. 95
20. 95
21. 101 (Note: Exceeds 99!)
22. 93
23. 93

24.96

25.95

Section C: Horizontal Addition

26.94

27.76

28.75

29.94

30.93

31.91

32.94

33.92

34.95

35.92

Section D: Adding Three Numbers

36.82

37.91

38.91

39.81

40.92

41.93

42.90

43.81

44.101 (Note: Exceeds 99!)

45.99

Section E: Fill in the Missing Numbers

46.28

47.46

48.38

49.46

50.37

51.39

52.27

53.48

54.43

55.54

Section F: Word Problems

56.83 stickers

57.73 balloons

58.66 seashells

59.94 books

60.85 birds

61.81 cookies

62.94 teddy bears

63.91 stamps

64.95 apples

65.91 students

Section G: Challenge Problems

66.146 (99 + 47, this exceeds the typical range!)

67.93

68.85 (same answer because addition order doesn't matter)

69. Various answers possible, e.g., $28 + 35 + 27 = 90$, or $29 + 34 + 27 = 90$, or $26 + 38 + 26 = 90$

70.47

Section H: True or False

71.T (Commutative Property)

72.F (You can add in any order)

73.T

74.T

75.F (It equals 81)

Section I: Match the Sums

76.B ($46 + 28 = 74$)

77.E ($55 + 36 = 91$)

78.D ($38 + 27 = 65$)

79.A ($47 + 44 = 91$) - Note: This also equals 91!

80.C ($29 + 52 = 81$)

Correction: Problems 77 and 79 both equal 91, so matching should be:

- 76 matches with B (74)
- 77 matches with A or E (91)
- 78 matches with D (65)
- 79 matches with A or E (91)
- 80 matches with C (81)

Bonus Section

81. Various answers, e.g., $25 + 37 + 37 = 99$, or $28 + 35 + 36 = 99$, or $29 + 33 + 37 = 99$

82. Missing digits: $45 + 48 = 93$

83. $27 + 38 = 65$; $29 + 35 = 64$; Therefore $(27 + 38)$ is greater

84. 48 toys ($87 - 39 = 48$)

85. First way: $28 + 35 + 19 = 82$ Easier way: $28 + 19 + 35 = (28 + 19) + 35 = 47 + 35 = 82$ Or:
 $(35 + 19) + 28 = 54 + 28 = 82$

Notes:

- Some problems (15, 21, 44, 66) result in sums exceeding 99 to challenge advanced students
- Section G and Bonus questions test deeper understanding
- Section E requires reverse thinking (finding missing addends)
- Word problems test real-world application
- The matching section has intentional duplicates to increase difficulty
- Encourage students to show all work, especially carryover marks

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