Addition Without Carryover (of numbers up to 99)
Grade 2

Name: _____ **Date:** _____

🧠 Section A: Mental Math

Solve these in your head! Write only the answer.

1. 43 + 6 = _____
2. 72 + 5 = _____
3. 58 + 1 = _____
4. 34 + 10 = _____
5. 81 + 7 = _____
6. 29 + 10 = _____
7. 65 + 4 = _____
8. 47 + 2 = _____
9. 93 + 3 = _____
10. 56 + 10 = _____

📊 Section B: Vertical Addition (Double-Digit + Single-Digit) (10 marks)

Solve these problems. Show your work!

1. 6 4 + 8 = _____

2. 7 3 + 6 = _____

3. 8 2 + 5 = _____

4. 55
+ 4
_____
_____

5. 91
+ 7
_____
_____

6. 48
+ 1
_____
_____

7. 36
+ 3
_____
_____

8. 69
+ 0
_____
_____

9. 27
+ 2
_____
_____

10. 84
+ 5
_____
_____

📐 Section C: Vertical Addition (Double-Digit + Double-Digit)

Line up and solve carefully!

1. 45
+32
_____
_____

2. 62
+24
_____
_____

3. 57
+41
_____
_____

4. 73
+16
_____
_____

5. 81
+18
_____
_____

6. 38
+50
_____
_____

7. 66
+23
_____
_____

8. 29
+40
_____
_____

9. 92
+06
_____
_____

10. 54
+35
_____
_____

➡ Section D: Horizontal Addition

Solve these problems horizontally. Show your work!

1. 24 + 13 = _____

2. 51 + 36 = _____

3. 42 + 5 = _____

4. 68 + 21 = _____

5. 35 + 33 = _____

6. 77 + 2 = _____

7. 19 + 40 = _____

8. 83 + 14 = _____

9. 46 + 52 = _____

10. 61 + 8 = _____

🔢 Section E: Adding Three Numbers

Add all three numbers. Show your steps!

1.
  23
  34
+ 12
_____
_____

2.
  15
  22
+ 41
_____
_____

3.
  41
  36
+ 21
_____
_____

4.
  35
  23
+ 30
_____
_____

5.
  52
  14
+ 33
_____
_____

6.
  63
  15
+ 20
_____
_____

7.
  47
  11
+ 31
_____
_____

8.
  28
  30
+ 40
_____
_____

9.
  55
  12
+ 32
_____
_____

10.
  19
  24
+ 14
_____
_____

📏 Section F: Number Line Addition

Use the number lines to solve. Draw jumps and write the answer!

1. Start at 34, add 5

30---31---32---33---34---35---36---37---38---39---40

↑

Answer: _____

2. Start at 52, add 7

50---51---52---53---54---55---56---57---58---59---60

Answer: _____

3. Start at 41, add 10

40---41---42---43---44---45---46---47---48---49---50---51---52

Answer: _____

4. Start at 68, add 1

65---66---67---68---69---70---71---72---73---74---75

Answer: _____

5. Start at 25, add 14

25---26---27---28---29---30---31---32---33---34---35---36---37---38---39---40

Answer: _____

6. Start at 73, add 6

70---71---72---73---74---75---76---77---78---79---80

Answer: _____

7. Start at 16, add 23

15---20---25---30---35---40---45

Answer: _____

8. Start at 84, add 4

80---81---82---83---84---85---86---87---88---89---90

Answer: _____

9. Start at 37, add 12

35---36---37---38---39---40---41---42---43---44---45---46---47---48---49---50

Answer: _____

10. Start at 60, add 8

60---61---62---63---64---65---66---67---68---69---70

Answer: _____

🧮 Section G: Abacus Addition

Look at the abacus and solve!

Remember: Each rod represents a place value (Tens | Ones)

1. Show 42 + 6 on the abacus. What's the answer?

Tens | Ones

●● | ●●

| ●●●●●●

|

Start: 42, Add: 6, Answer: _____

2. Show 35 + 23 on the abacus. What's the answer?

Tens | Ones

●●● | ●●●●●

●● | ●●●

Start: 35, Add: 23, Answer: _____

3. If you have 5 tens and 4 ones, then add 2 tens and 3 ones, what do you get?

Answer: _____

4. Show 61 + 7 on the abacus. What's the answer?

Answer: _____

5. If you have 7 tens and 2 ones, then add 5 ones, what do you get?

Answer: _____

6. Show 48 + 31 on the abacus. What's the answer?

Answer: _____

7. If you have 3 tens and 6 ones, then add 4 tens and 2 ones, what do you get?

Answer: _____

8. Show 84 + 4 on the abacus. What's the answer?

Answer: _____

9. If you have 2 tens and 5 ones, then add 3 tens and 4 ones, what do you get?

Answer: _____

10. Show 56 + 12 on the abacus. What's the answer?

Answer: _____

📖 **Section H: Word Problems**

Read carefully and solve! Show your work.

1. Maya has 45 stickers. Her friend gives her 23 more stickers. How many stickers does Maya have now?

Work:

Answer: _____ stickers

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2. There are 36 boys and 42 girls in a school playground. How many children are there in total?

Work:

Answer: _____ children

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3. A farmer has 54 chickens. He buys 5 more chickens from the market. How many chickens does he have altogether?

Work:

Answer: _____ chickens

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4. Rahul reads 28 pages of a book on Monday, 31 pages on Tuesday, and 20 pages on Wednesday. How many pages did he read in total?

Work:

Answer: _____ pages

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5. There are 63 red balloons and 24 blue balloons at a party. How many balloons are there in all?

Work:

Answer: _____ balloons

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6. A toy shop has 47 cars and 42 trucks. How many vehicles are there in the shop?

Work:

Answer: _____ vehicles

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7. Priya scored 38 marks in Math and 41 marks in English. What is her total score?

Work:

Answer: _____ marks

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8. A baker made 52 cupcakes in the morning and 36 cupcakes in the afternoon. How many cupcakes did he make in total?

Work:

Answer: _____ cupcakes

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9. There are 15 sparrows, 22 pigeons, and 31 crows on a tree. How many birds are there altogether?

Work:

Answer: _____ birds

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10. A library has 67 story books. The librarian adds 12 more story books. How many story books are there now?

Work:

Answer: _____ story books

🔍 Section I: Fill in the Missing Numbers

Find the missing number in each problem.

1. 43 + _____ = 48
2. _____ + 25 = 52
3. 61 + 17 = _____
4. 35 + _____ = 71
5. _____ + 8 = 76
6. 24 + 34 = _____
7. _____ + 42 = 87
8. 53 + 6 = _____
9. 18 + _____ = 39

10.72 + _____ = 82

🎯 Section J: Challenge Questions

These are tricky! Think carefully!

1. What two numbers add up to 89? Both numbers must be double-digit numbers and the ones digits must be the same.

First number: _____ Second number: _____

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2. Arrange these numbers to get the largest sum possible (without carryover): **Numbers:** 43, 12, 34

Arrangement: _____ + _____ + _____ = _____

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3. I am a number. When you add 10 to me, you get 76. What number am I?

Answer: _____

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4. Fill in the blanks:

5 __

+ 3 2

_____

8 5

Missing digit: _____

---

5. Sam adds three numbers: 21, 35, and another number. His total is 78. What is the third number?

Work:

Answer: _____

6. True or False: 45 + 23 = 23 + 45

Answer: _____

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7. What is the smallest double-digit number you can add to 48 without getting a carryover?

Answer: _____

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8. If you add the same number twice to 24, you get 48. What is that number?

Work:

Answer: _____

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9. Circle the problems that will give you an answer greater than 80:

- a) 52 + 36
- b) 41 + 37
- c) 68 + 11
- d) 75 + 3

Answer: _____

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10. Create your own addition problem using two double-digit numbers where the answer is exactly 77 (without carryover).

Your problem: _____ + _____ = 77

✅ ANSWER KEY

Section A: Mental Math

1. 49
2. 77
3. 59
4. 44
5. 88
6. 39
7. 69
8. 49
9. 96
10. 66

Section B: Vertical Addition (Double-Digit + Single-Digit)

1. 72
2. 79
3. 87
4. 59
5. 98
6. 49
7. 39
8. 69
9. 29
10. 89

Section C: Vertical Addition (Double-Digit + Double-Digit)

1. 77
2. 86
3. 98
4. 89
5. 99
6. 88
7. 89
8. 69
9. 98
10. 89

Section D: Horizontal Addition

1. 37
2. 87
3. 47
4. 89
5. 68
6. 79
7. 59
8. 97
9. 98
10. 69

Section E: Adding Three Numbers

1. 69
2. 78
3. 98
4. 88
5. 99
6. 98
7. 89
8. 98
9. 99
10. 57

Section F: Number Line Addition

1. 39
2. 59
3. 51
4. 69
5. 39
6. 79
7. 39
8. 88
9. 49
10. 68

Section G: Abacus Addition

1. 48
2. 58
3. 77
4. 68
5. 77
6. 79
7. 78
8. 88
9. 59
10. 68

Section H: Word Problems

1. 68 stickers
2. 78 children
3. 59 chickens
4. 79 pages
5. 87 balloons
6. 89 vehicles
7. 79 marks
8. 88 cupcakes
9. 68 birds
10. 79 story books

Section I: Fill in the Missing Numbers

1. 5
2. 27
3. 78
4. 36
5. 68
6. 58
7. 45
8. 59
9. 21
10. 10

Section J: Challenge Questions

1. Multiple answers possible, e.g., 44 + 45 = 89, or 33 + 56 = 89, or 22 + 67 = 89, or 11 + 78 = 89
2. 43 + 34 + 12 = 89 (any order works due to commutative property)
3. 66
4. 3 (making the number 53)
5. 22
6. True
7. 41 (48 + 41 = 89, no carryover; 48 + 50 would work but 48 + 51 would cause carryover in this context. The smallest is actually 10, but if looking for largest without carryover in ones place: 41)
8. 12 (24 + 12 + 12 = 48, so the number is 12)
9. c and d (52+36=88, 41+37=78, 68+11=79, 75+3=78) - Actually a, c are > 80
10. Multiple answers possible, e.g., 35 + 42 = 77, or 46 + 31 = 77, or 52 + 25 = 77, etc.

Common Mistakes to Watch For:

- Not lining up place values in vertical addition
- Adding ones to tens or vice versa
- Calculation errors in three-number addition
- Misreading word problems