# SUBTRACTION WITHIN 20

## A DEFINITIONS

### A.1 SUBTRACTING NUMBERS WITHIN 10

**Ex 1:**

$$9 - 1 = \boxed{\phantom{000}}$$

**Ex 2:**

$$10 - 2 = \boxed{\phantom{000}}$$

**Ex 3:**

$$7 - 3 = \boxed{\phantom{000}}$$

**Ex 4:**

$$9 - 5 = \boxed{\phantom{000}}$$

**Ex 5:**

$$6 - 2 = \boxed{\phantom{000}}$$

**Ex 6:**

$$8 - 3 = \boxed{\phantom{000}}$$

**Ex 7:**

$$10 - 6 = \boxed{\phantom{000}}$$
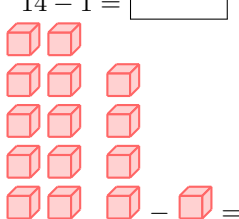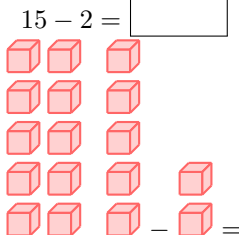
### A.2 SUBTRACTING BY TAKING AWAY UNITS

**Ex 8:**

$$14 - 1 = \boxed{\phantom{000}}$$



$- \;\; =$

**Ex 9:**

$$15 - 2 = \boxed{\phantom{000}}$$



$- \;\; =$

**Ex 10:**

$$16 - 1 = \boxed{\phantom{000}}$$



$- \;\; =$

**Ex 11:**

$$16 - 3 = \boxed{\phantom{000}}$$



$- \;\; =$

**Ex 12:**

$$14 - 4 = \boxed{\phantom{000}}$$



$- \;\; =$

**Ex 13:**

$$17 - 5 = \boxed{\phantom{000}}$$



$- \;\; =$
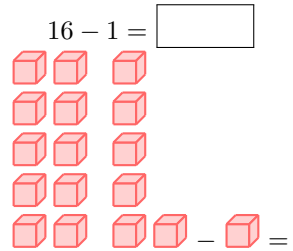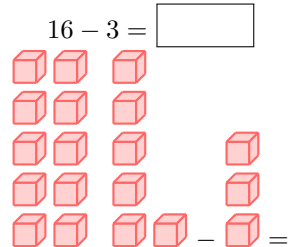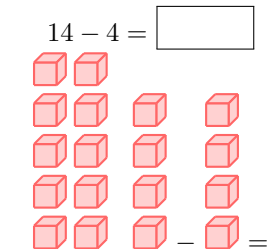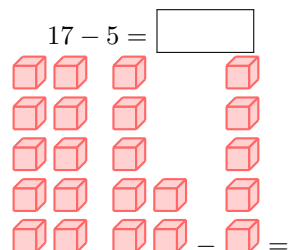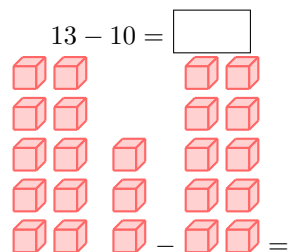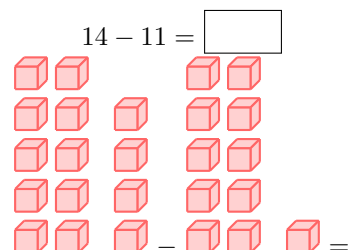
### A.3 SUBTRACTING BY TAKING AWAY UNITS AND ONE TEN

**Ex 14:**

$$13 - 10 = \boxed{\phantom{000}}$$



$- \;\; =$

**Ex 15:**

$$14 - 11 = \boxed{\phantom{000}}$$



$- \;\; =$

**Ex 16:**

$$13 - 12 = \boxed{\phantom{00}}$$

$$\square\square - \square\square\square =$$

**Ex 17:**

$$15 - 13 = \boxed{\phantom{00}}$$

$$\square\square - \square\square\square =$$

**Ex 18:**

$$13 - 10 = \boxed{\phantom{00}}$$

$$\square\square - \square\square =$$

**Ex 19:**

$$15 - 14 = \boxed{\phantom{00}}$$

$$\square\square - \square\square\square =$$

**Ex 20:**

$$18 - 16 = \boxed{\phantom{00}}$$

$$\square\square - \square\square\square =$$

## A.4  SUBTRACTING MULTIPLE NUMBERS

**Ex 21:**

$$5 - 1 - 1 = \boxed{\phantom{00}}$$

$$\square - \square - \square =$$

**Ex 22:**

$$5 - 2 - 1 = \boxed{\phantom{00}}$$

$$\square - \square - \square =$$

**Ex 23:**

$$6 - 3 - 2 = \boxed{\phantom{00}}$$

$$\square\square - \square - \square =$$

**Ex 24:**

$$7 - 1 - 3 = \boxed{\phantom{00}}$$

$$\square\square - \square - \square =$$

**Ex 25:**

$$8 - 2 - 4 = \boxed{\phantom{00}}$$

$$\square\square - \square - \square =$$

**Ex 26:**

$$6 - 4 - 1 = \boxed{\phantom{00}}$$

$$\square\square - \square - \square =$$

**Ex 27:**

$$9 - 4 - 3 = \boxed{\phantom{00}}$$

$$\square\square - \square - \square =$$

## A.5 BREAKING DOWN NUMBERS

**Ex 28:**

$$3 = 2 + \boxed{\phantom{00}}$$

**Ex 29:**

$$5 = 3 + \boxed{\phantom{00}}$$

**Ex 30:**

$$4 = 1 + \boxed{\phantom{00}}$$

**Ex 31:**

$$7 = 4 + \boxed{\phantom{00}}$$

**Ex 32:**

$$8 = 3 + \boxed{\phantom{00}}$$

**Ex 33:**

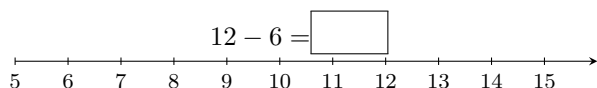$$9 = 7 + \boxed{\phantom{00}}$$

**Ex 34:**

$$10 = 6 + \boxed{\phantom{00}}$$

# B NUMBER LINE METHOD

## B.1 SUBTRACTING USING THE NUMBER LINE

**Ex 35:**

$$13 - 4 = \boxed{\phantom{00}}$$

5  6  7  8  9  10  11  12  13  14  15

**Ex 36:**

$$12 - 6 = \boxed{\phantom{00}}$$

5  6  7  8  9  10  11  12  13  14  15

**Ex 37:**

$$14 - 5 = \boxed{\phantom{00}}$$

5  6  7  8  9  10  11  12  13  14  15

**Ex 38:**

$$15 - 6 = \boxed{\phantom{00}}$$

5  6  7  8  9  10  11  12  13  14  15

**Ex 39:**

$$11 - 6 = \boxed{\phantom{00}}$$

5  6  7  8  9  10  11  12  13  14  15

**Ex 40:**

$$17 - 6 = \boxed{\phantom{00}}$$
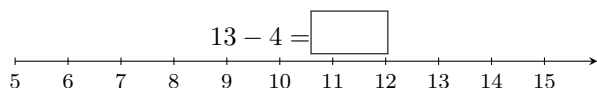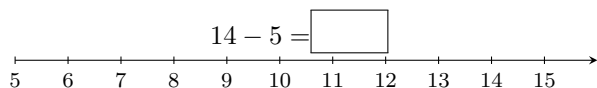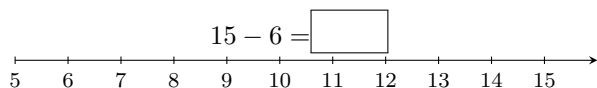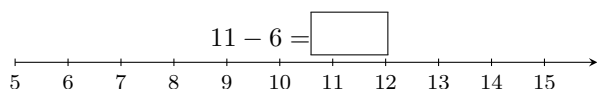
10  11  12  13  14  15  16  17  18  19  20
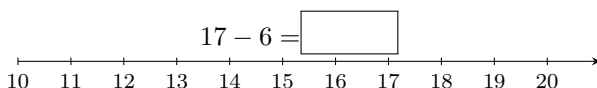
# C MAKING 10 METHOD

## C.1 BREAKING DOWN NUMBERS TO MAKE TEN

**Ex 41:**

$$11 - 3 = 11 - 1 - \boxed{\phantom{00}}$$

**Ex 42:**

$$12 - 3 = 12 - 2 - \boxed{\phantom{00}}$$

**Ex 43:**

$$14 - 6 = 14 - 4 - \boxed{\phantom{00}}$$

**Ex 44:**

$$12 - 7 = 12 - 2 - \boxed{\phantom{00}}$$

**Ex 45:**

$$11 - 9 = 11 - 1 - \boxed{\phantom{00}}$$

**Ex 46:**

$$13 - 7 = 13 - 3 - \boxed{\phantom{00}}$$

**Ex 47:**

$$15 - 9 = 15 - 5 - \boxed{\phantom{00}}$$

## C.2 SUBTRACTING FROM TEN

**Ex 48:**

$$10 - 3 = \boxed{\phantom{00}}$$

**Ex 49:**

$$10 - 2 = \boxed{\phantom{00}}$$

**Ex 50:**

$$10 - 4 = \boxed{\phantom{00}}$$

**Ex 51:**

$$10 - 1 = \boxed{\phantom{00}}$$

**Ex 52:**

$$10 - 5 = \boxed{\phantom{00}}$$

**Ex 53:**

$$10 - 7 = \boxed{\phantom{00}}$$

**Ex 54:**

$$10 - 6 = \boxed{\phantom{00}}$$

## C.3 MAKING 10 AFTER BREAKING DOWN NUMBERS

**Ex 55:**

$$13 - 5 \quad = \quad 13 - 3 - 2$$
$$= \quad \boxed{\phantom{00}}$$

**Ex 56:**

$$17 - 8 \quad = \quad 17 - 7 - 1$$
$$= \quad \boxed{\phantom{00}}$$

**Ex 57:**

$$16 - 8 \quad = \quad 16 - 6 - 2$$
$$= \quad \boxed{\phantom{00}}$$

**Ex 58:**

$$15 - 8 \quad = \quad 15 - 5 - 3$$
$$= \quad \boxed{\phantom{00}}$$

**Ex 59:**

$$14 - 7 \quad = \quad 14 - 4 - 3$$
$$= \quad \boxed{\phantom{00}}$$

**Ex 60:**

$$18 - 9 \quad = \quad 18 - 8 - 1$$
$$= \quad \boxed{\phantom{00}}$$

**Ex 61:**

$$13 - 7 \quad = \quad 13 - 3 - 4$$
$$= \quad \boxed{\phantom{00}}$$

**Ex 62:**

$$13 - 9 \quad = \quad 13 - 3 - 6$$
$$= \quad \boxed{\phantom{00}}$$

## C.4 SUBTRACTING NUMBER WITHIN 20

**Ex 63:**

$$13 - 5 = \boxed{\phantom{00}}$$

**Ex 64:**

$$17 - 8 = \boxed{\phantom{00}}$$

**Ex 65:**

$$16 - 8 = \boxed{\phantom{00}}$$

**Ex 66:**

$$15 - 8 = \boxed{\phantom{00}}$$

**Ex 67:**

$$14 - 7 = \boxed{\phantom{00}}$$

**Ex 68:**

$$18 - 9 = \boxed{\phantom{00}}$$

**Ex 69:**

$$13 - 7 = \boxed{\phantom{00}}$$

**Ex 70:**

$$13 - 9 = \boxed{\phantom{00}}$$

# D ADDITION AND SUBTRACTION LINK

## D.1 FINDING SUBTRACTION USING ADDITION

**Ex 71:** If we know that $17 + 14 = 31$, then $31 - 17 = \boxed{\phantom{00}}$.

**Ex 72:** If we know that $50 + 45 = 95$, then $95 - 50 = \boxed{\phantom{00}}$.

**Ex 73:** If we know that $18 + 82 = 100$, then $100 - 18 = \boxed{\phantom{00}}$.

**Ex 74:** If we know that $78 + 2 = 80$, then $80 - 78 = \boxed{\phantom{00}}$.

## D.2 FINDING THE MISSING SUBTRAHEND

**Ex 75:**

$$4 - \boxed{\phantom{00}} = 1$$

**Ex 76:**

$$5 - \boxed{\phantom{00}} = 2$$

**Ex 77:**

$$7 - \boxed{\phantom{00}} = 5$$

**Ex 78:**

$$6 - \boxed{\phantom{00}} = 4$$

**Ex 79:**

$$8 - \boxed{\phantom{00}} = 3$$

## D.3 FINDING THE TOTAL IN SUBTRACTION PROBLEMS

**Ex 80:**

$$\boxed{\phantom{00}} - 2 = 3$$

**Ex 81:**

$$\boxed{\phantom{00}} - 4 = 2$$

**Ex 82:**

$$\boxed{\phantom{00}} - 3 = 4$$

**Ex 83:**

$$\boxed{\phantom{00}} - 5 = 3$$

**Ex 84:**

$$\boxed{\phantom{00}} - 6 = 3$$

## D.4  FINDING THE MISSING ADDEND

**Ex 85:**

$$9 + \boxed{\phantom{00}} = 11$$

**Ex 86:**

$$7 + \boxed{\phantom{00}} = 12$$

**Ex 87:**

$$6 + \boxed{\phantom{00}} = 12$$

**Ex 88:**

$$11 + \boxed{\phantom{00}} = 14$$

**Ex 89:**

$$8 + \boxed{\phantom{00}} = 12$$

**Ex 90:**

$$5 + \boxed{\phantom{00}} = 12$$

**Ex 91:**

$$12 + \boxed{\phantom{00}} = 15$$

## D.5  SUBTRACTING BY THINKING ADDITION

**Ex 92:**

$$17 - 15 = \boxed{\phantom{00}}$$

| 17 |
| 15 | $x$ |

**Ex 93:**

$$11 - 9 = \boxed{\phantom{00}}$$

| 11 |
| 9 | $x$ |

**Ex 94:**

$$19 - 15 = \boxed{\phantom{00}}$$

| 19 |
| 15 | $x$ |

**Ex 95:**

$$12 - 8 = \boxed{\phantom{00}}$$

| 12 |
| 8 | $x$ |

**Ex 96:**

$$13 - 11 = \boxed{\phantom{00}}$$

| 13 |
| 11 | $x$ |

**Ex 97:**

$$14 - 9 = \boxed{\phantom{00}}$$

| 14 |
| 9 | $x$ |

**Ex 98:**

$$16 - 11 = \boxed{\phantom{00}}$$

| 16 |
| 11 | $x$ |
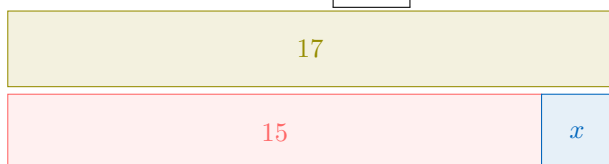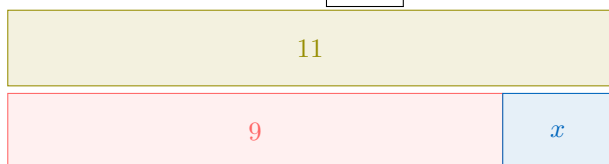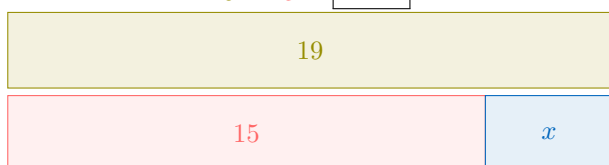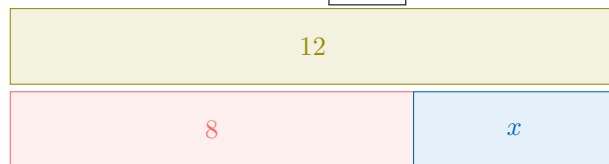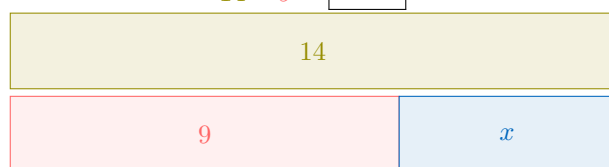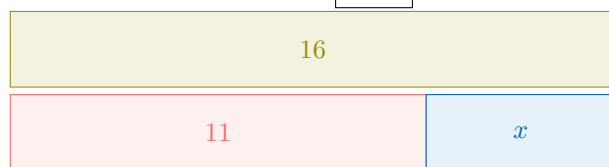
# E  PROBLEM-SOLVING METHODS

## E.1  SOLVING REAL-WORLD PROBLEMS

**Ex 99:** Hugo and Louis are looking for shells. Hugo found 6 shells, and Louis found 9 shells.
How many shells do they have together in total?

$$\boxed{\phantom{0000}} \text{ shells}$$

**Ex 100:** Last month, Louis weighed 14 kilos. This month, he gained 5 kilos. How much does Louis weigh now?

$$\boxed{\phantom{0000}} \text{ kilos}$$

**Ex 101:** A bookshelf has 11 books. You take 3 books to read. How many books are left on the bookshelf?

$$\boxed{\phantom{0000}} \text{ books}$$

**Ex 102:** Su has saved 12 dollars from her allowance. Li has saved 5 dollars more than Su.
How much money has Li saved?

$$\boxed{\phantom{0000}} \text{ dollars}$$

**Ex 103:** You have 17 marbles. You give 4 marbles to a friend. How many marbles do you have left?

|   | marbles

**Ex 104:** During the holiday, Anjelaï read 5 more books than the 7 books she had planned to read. How many books did she read in total?

|   | books

**Ex 105:** You buy something for 6 dollars. You give the seller a 10 dollar bill. How much change will you get back?

|   | dollars

**Ex 106:** You start with 20 candies. You give 6 candies to a friend. How many candies do you have left?

|   | candies

**Ex 107:** Li won 8 marbles during recess. Tonight, he has 15 marbles. How many marbles did he have this morning?

|   | marbles

**Ex 108:** Emma found 5 seashells at the beach in the afternoon. Now she has 12 seashells. How many seashells did she already have before going to the beach?

|   | seashells