

## [PSEUDOCODE ACTIVITIES]

### 1. WHAT IS THE QUESTION ANSWERED BY EACH OF THIS PROGRAMS?

Draw a flowchart for each one

a)

```
START
  Num: INTEGER
  WRITE "Tell me a whole number greater than 2"
  READ Num

  REPEAT UNTIL Num < 2
    Num ← Num - 2
  END REPEAT

  IF Num = 0
    WRITE "Answer is YES."
  IF Num = 1
    WRITE "Answer is NO."
END
```

b)

```
START
  Num: INTEGER
  WRITE "Tell me a whole number greater than 5"
  READ Num

  REPEAT UNTIL Num < 5
    Num ← Num - 2
  END REPEAT

  IF Num = 0
    WRITE "Answer is YES."
  IF Num > 0
    WRITE "Answer is NO."
END
```

c)

```
START
  Num1, Num2, Result: INTEGER
  WRITE "Tell me the first number"
  READ Num1
  WRITE "Tell me the second number"
  READ Num2

  Result ← (Num1 · Num2) / 2

  WRITE "The answer is" + Result
END
```

SOLUTIONS

A. Is the given number EVEN?

**B.** Is the given number a multiple of 5?

**C.** Calculate the area of a triangle

2. DRAW THE FLOWCHART AND WRITE THE PROGRAM IN PSEUDOCODE TO SOLVE EACH OF THE FOLLOWING PROBLEMS:

- a) Check if a number is a divider of another one.
- b) Check if a given number is prime.
- c) Write an amount of time expressed in hours, minutes and seconds just in seconds.
- d) Write the binary code corresponding to a decimal number
- e) Calculate the minimum common multiple of two numbers.
- f) Write a number as a product of prime numbers.