

1º E.S.O.

MATHEMATICS

ACTIVITIES II

1.-Describe the opposite to each of the following:

- | | |
|----------------|-----------------------------|
| a) moving east | b) moving up |
| c) pushing | d) turning clockwise |
| e) rising | e) turning counterclockwise |

2.-Copy a complete the following table with the help of a thermometer:

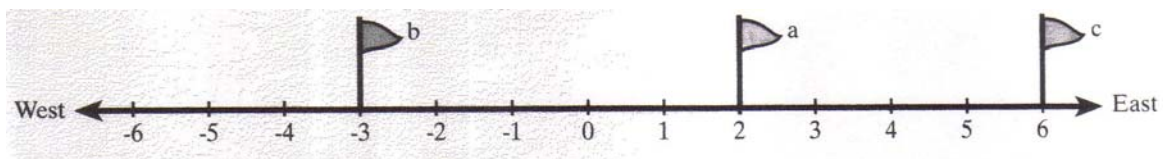
Starting Temperature (°C)	5	-2	0	-4	-8	-5	-2	3	-7	-8
Rise in Temperature (°C)	3	3	8	8	4	10	10	7	3	8
New Temperature (°C)				4						

3.-The table below gives the temperature of 8 cities in mid-winter. Study the table and answer the questions that follow.

Dublin	2°C	Moscow	-12°C	Helsinki	-8°C	New York	7°C
London	5°C	Madrid	-2°C	Berlin	1°C	Oslo	-5°C

- In how many cities is the temperature below zero?
- Which is the coldest city?
- What is the difference in temperature between the coldest and warmest cities?
- What city is 4°C colder than Dublin?
- What city is 4°C warmer than Moscow?
- If the temperature in each city rose by 3°C, how many would be below zero?
- Between which two cities is there a temperature difference of 10°C?
- If the temperature of each city rose by 4°C, what would be the new temperature in each city?

4.-Describe how to go from b to c and from c to a.



5.-Write each of the number in the grid as a decimal:

hundreds	tens	units	tenths	hundredths	thousandths	number
	2	1	3			
1	0	7	5	6		
	9	3	2	5	4	
		6	4	5		
2	0	3	4	0	3	

6.-What is the decimal number?

- Eight thousand Nine hundred Eighty-four ten-thousandths.
- Six thousand One hundred Sixteen ten-thousandths.
- Nine thousand Forty-eight ten-thousandths.
- Seven thousand One hundred Twenty-five ten-thousandths.
- Seven thousand Seven hundred Ninety-four ten-thousandths.

7.-Finding place values:

- The decimal 0.8636 has _____ tenths, _____ hundredths, _____ thousandths and _____ ten-thousandths.
- The decimal 0.2825 has _____ tenths, _____ hundredths, _____ thousandths and _____ ten-thousandths.
- The decimal 0.0088 has _____ tenths, _____ hundredths, _____ thousandths and _____ ten-thousandths.
- The decimal 0.0201 has _____ tenths, _____ hundredths, _____ thousandths and _____ ten-thousandths.
- The decimal 0.8026 has _____ tenths, _____ hundredths, _____ thousandths and _____ ten-thousandths.

8.-Write each of the following to three places of decimals:

- | | | | |
|-----------|-----------|-----------|-----------|
| a) 0.1234 | b) 1.4321 | c) 1.5256 | b) 0.0375 |
| c) 2.4728 | d) 0.0064 | e) 8.0076 | d) 2.5155 |

9.-Round the decimal number to the nearest tenth:

- a) Nine hundred Twenty-seven thousandths.
- b) Six hundred Twenty-five thousandths.
- c) Seven hundred Eighty-seven thousandths.
- d) Eight hundred Twenty-seven thousandths.
- e) Two ten Five hundredths.

10.-Find the cost of the T-shirt in each of the following bills:

a) Cap	14.50 €	b) Scarf	18.50 €	c) Ear-ring	14.95 €
Belt	9.47 €	Socks	6.25 €	T-shirt	€
T-shirt	€	Jumper	24.90 €	Magazine	2.35 €
Jacket	29.90 €	T-shirt	€	CD	5.49 €
Total	61.50 €	Total	54.15 €	Total	31.45 €

11.-If Mr. Cordero's last electricity bill amounted to 132 € (including a 20 € supply charge), find the number of units he used if each unit costs 0.20 €. If his meter reading at the end of the billing period was 17,689, what was the reading at the beginning of the period?

12.-An aeroplane leaves Dublin airport at 09.40 hours and arrives in London 55 minutes later. At what time does it arrive in London?

If the pilot of the plane was at the airport one hour before the flight left Dublin and if it took 35 minutes for the pilot to drive from home to the airport, at what time did he leave home?

13.-Which train takes the least time to travel from Limerick to Dublin?

Train	Departs Limerick	Arrives Dublin
A	07.45	10.05
B	10.15	12.30
C	12.00	14.40

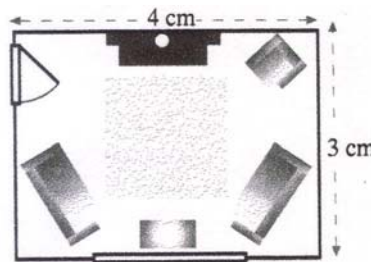
14.-Find the scale used in each of the following:

- a) a 5 cm drawing used to represent 4 m.
- b) a 3 cm drawing used to represent 60 m.
- c) a 4 cm drawing used to represent 24.4 m.

- d) a 2 cm drawing used to represent 4 km.
- e) a 4.2 cm drawing used to represent 8.4 m.
- f) a 5 mm drawing used to represent 3 m.
- g) a 8 mm drawing used to represent 16 m.

15.-The scale used for the drawing of the sitting room is 1:1000. Find:

- a) The length and the width in metres.
- b) The area of the room in square metres (m²).



16.-Using the scale 1:10000000 find (as accurately as you can) from the map the distance between:



- a) London and Liverpool.
- b) Southampton and Newcastle.
- c) Glasgow and Manchester.
- d) Manchester and London.
- e) Cardiff and London.
- f) Cardiff and Newcastle.
- g) London and Aberdeen going through Glasgow.
- h) Cardiff and Glasgow going through Liverpool.

17.-Using the chart below (distance in kilometres), find the distance from:

- Ávila to Toledo.
- Toledo to Segovia.
- Segovia to Madrid.

	Madrid	Ávila	Segovia	Toledo
Madrid	-----	115	92	71
Ávila	115	-----	67	137
Segovia	92	67	-----	158
Toledo	71	137	158	-----

18.-From the given road map chart, find the distance (in km) from:

- Sevilla to Granada.
- Almería to Cádiz.
- Cádiz to Málaga.
- Málaga to Córdoba.
- Cádiz to Jaén.
- Jaén to Granada.
- Sevilla to Cádiz.
- Huelva to Almería.

Sevilla											
94	Huelva										
125	219	Cádiz									
138	232	263	Córdoba								
219	313	265	187	Málaga							
242	336	367	104	209	Jaén						
256	350	335	166	129	99	Granada					
422	516	484	332	219	228	166	Almería				