

List the five types of numbers:

- 2. \_\_\_\_\_
- 3. \_\_\_\_\_
- 4. \_\_\_\_\_
- 5. \_\_\_\_\_

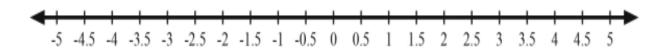
atural
ositive
_

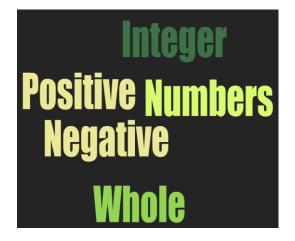
What is a natural number?

Write down three natural numbers:



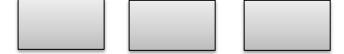
Colour in the NATUAL numbers on the number line.



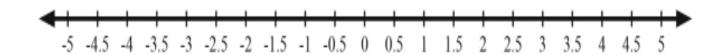


What is a integer number?

Write down three integers:



Colour in the integer numbers on the number line.



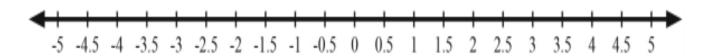


What is a rational number?

Write down three rational number:

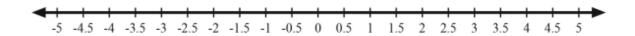


Colour in the integer numbers on the number line.

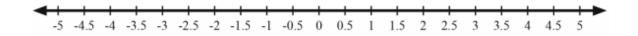


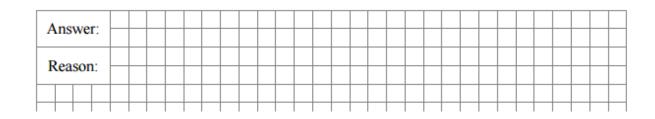
### Homework:

Mark all the natural numbers on the following number line with a dot. (a)



(b) Mary is drawing a number line and has put all the integers from -5 to 5 on it. Is she correct? Explain your answer fully.





Tick each box opposite the number if the number belongs to that set. (i)

Number	Natural numbers ℕ	Integers Z	Rational numbers Q	Real numbers ℝ
3				
- 2				
-0.5				
$\sqrt{2}$				
$2\frac{2}{3}$				
sin 30°				
π				



What are the symbols for:

Greater than

Less than

Equal

### Arrange these numbers in decreasing order:

1) 367.24 115.42 96.452 25.389 463.13

>\_\_\_>

1)

$$\frac{5}{6}, \quad \frac{3}{2}, \quad \frac{5}{4}$$

## Arrange these numbers in increasing order:

2) 58.369 45.1 453.69 583.69 353.69

2) 
$$-\frac{5}{6}$$
,  $-\frac{9}{6}$ ,  $\frac{7}{6}$ ,  $\frac{5}{6}$ 

$$\frac{7}{6}$$

## **HOMEWORK:**

Put the following numbers in decreasing order.

2<sup>2</sup>  $\sqrt{1.5}$ 0.5



#### **CHAPTER TWO:**





# Calculate how much gross pay each of these people get per week:

NAME	Hours worked	Pay per hour	Gross Pay (Before Tax)
Sean	40	9.15	
Oisin	43	8.90	
Megan	39	10.00	

## Question:

If James works a regular working week of 35 hours. He is paid at a rate of **9.15 EURO per hour**.

Calculate the gross weekly pay.

Answer:			



#### Calculate the hours worked as overtime:

Time	Regular	Overtime
worked	time	hours
49	35	
40	35	
35	30	
44	40	
35	37	

Calculate the rate of pay for overtime (overtime = time + half)

Regular	Overtime pay
pay per	(time + half)
hour	
4.00	
10.00	
14.00	
16.00	
20.00	
100.00	
10.50	
12.50	
16.50	
6.00	

If Oisin regular working week is 35 hours. He gets paid 10.50 per hour.

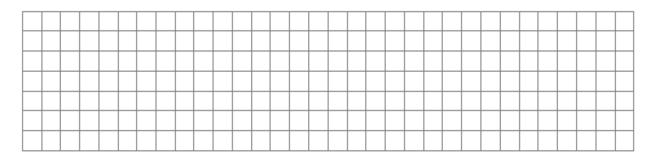
i)	How much pay will he earn?
If Oisii	works <b>40 hours per week</b> . How many hours has he worked a ne?
If he g	ets paid <b>time and a half for overtime</b> .

How much will Oisin earn per overtime hour?

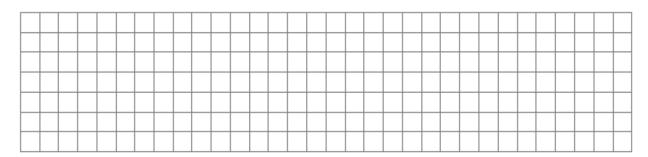
#### Calculate Sean's Pay. **HOMEWORK:**

Séan works a regular working week of 35 hours. He is paid at a rate of €10.50 per hour.

(a) Calculate Séan's gross weekly pay.



- One particular week Séan works 41 hours. Overtime is paid at a rate of time and a half. **(b)** 
  - (i) Calculate Séan's overtime pay.



(ii) Calculate Séan's gross income for the week.





Gross income	TAX AT 20% (TAKE AWAY)	TAX CREDIT (ADD)	Net pay
650	-		
800			
550			
600			
1500			
3000			
15,000			

