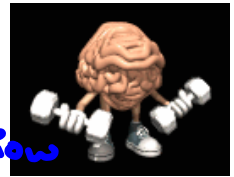




# Board Work



## Brain Teasers 1

Flora sat in front of Vern.

Jeremy sat between Ming and Vern.

Steve sat to the left of Tom and Flora.

Who sat where? Complete the diagram.

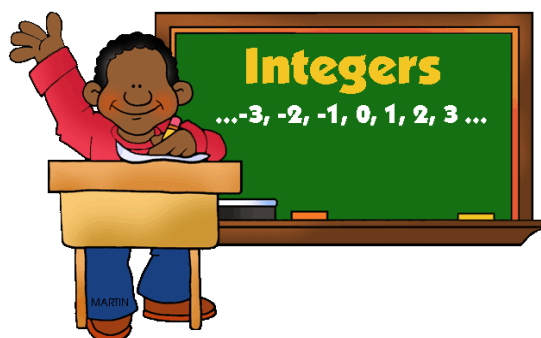
*F is in front row*  
*V is Back row*  
*J and M are in the Back*

Front	S	T	F
Back	M	J	V

+

# Unit 2 - Integers

-



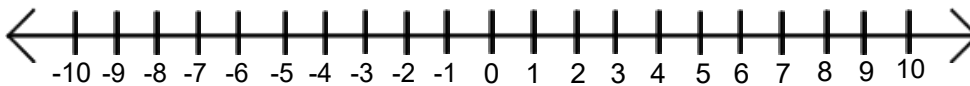
## Notes



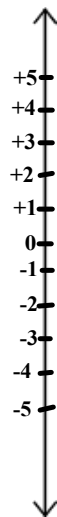
(-) (+)

**Integers** are **negative** and **positive** whole numbers. They can be written on horizontal or vertical number lines.

Horizontal



Vertical



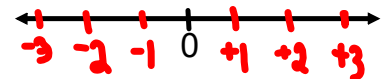
**Opposite integers** have the **same number but different signs**. Example) +5 , -5

You must use the + or - signs to represent integers

Always compared to zero

Ex) +1 is 1 units GREATER than ZERO

Ex) -2 is 2 units LESS than ZERO





## Activating Prior Knowledge

### What Is an Integer?

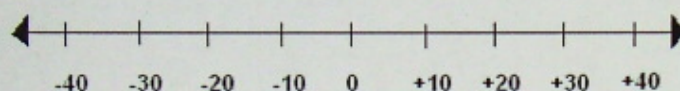
### Quick Review

Integers are numbers such as +3, -5, +10, -1, and 0.

We put + in front of a number to indicate it is a *positive integer*.

We put - in front of a number to indicate it is a *negative integer*.

We can show integers on a number line.



The negative integer, -10,  
is 10 units less than 0.

The positive integer, +30,  
is 30 units greater than 0.

### Example 1

Use a positive or negative integer to represent each situation.

- a) diving 25 m below the ocean's surface
- b) a temperature of 15°C

### Solution

a)  $-25\text{m}$

b)  $+15^\circ\text{C}$

More Practice:

**Give the integer for each of the following:**

**(a) a gain of 12 = +12**

**(b) a decrease of 35 = -35**

**(c) 250 m above sea level = +250**

**(d) to lose \$9 = -9**

**(e) to owe \$ 25 = -25**



> is the **greater** than sign

< is the **less** than sign

### Remember

Big mouth points  
towards the BIG #



Small mouth points  
towards the small #

Put a < or > in the circle

a)  $6 \text{ } \textcircled{<} \text{ } 9$   
**B**

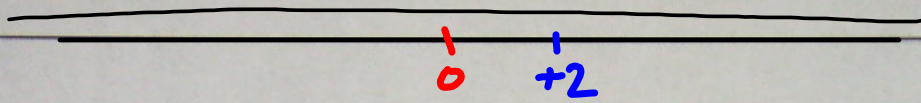
b)  $+15 \text{ } \textcircled{>} \text{ } -2$   
**B**

c)  $-5 \text{ } \textcircled{<} \text{ } -2$   
**B**





Check



0 +2

1. Mark each integer on a number line.

a) +2

b) -6

c) -3

d) +8

do 2. Use a positive or negative integer to represent each situation.

a) The water level rises 4 cm after a low tide.           

b) The average temperature close to the South Pole is 50°C below 0°C.           

c) You earned \$19 since yesterday.           

d) The time is 11 s before blast-off.           

e) You walk down 7 stairs.           

f) You ride up 6 floors on an elevator.

g) The golfer took 3 strokes fewer than par.

3. Use question 2 as a model.

Use each integer below to describe a situation.

a) +5

b) -4

c) +110

d) -150

Activating Prior Knowledge: Unit 2

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Check

do the ones with ☆

4. Order the integers in each set from least to greatest.

☆ a)  $+5, -3, +4$

b)  $0, +6, -6$

c)  $+6, -6, +5, +3, -3$

☆ d)  $-8, +9, -10, +11, -12$

e)  $0, +2, -3, +4, -6$

☆ f)  $-30, +25, -12, -5, +7$

5. Copy each statement. Use  $<$  or  $>$  to show which number in each pair is greater.  
Use a number line if it helps.

☆ a)  $+2 \square +8$

b)  $0 \square -5$

c)  $-7 \square 0$

☆ d)  $+250 \square -251$

☆ e)  $-100 \square -70$

f)  $-361 \square -360$

## Attachments

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Integers Worksheet 1.docx