

Warm-up: 1 2 3

Oct. 28, 2020

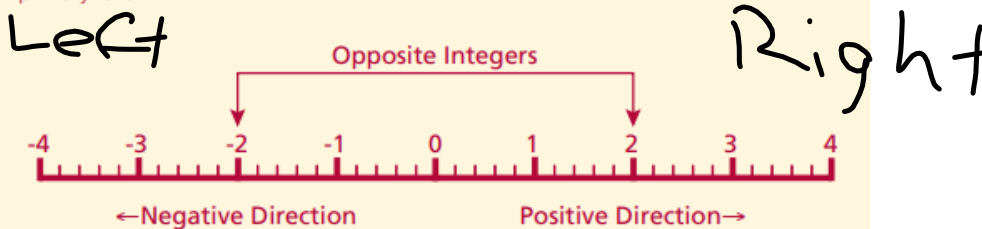
Inky #9

7 + 3	1	1 - 2
2 x 2	3	1
1	1 - 2	3

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Introducing the Topic


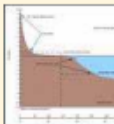
Students should be familiar with the concept of directed numbers from primary school. The number line with directed numbers on it will reinforce concepts learned at the primary level.



Real Life Context

The following examples could be used to explore real life contexts.

- Temperature 
- Money e.g. Owing €10 being the same as -10

- Golf scores 
- Heights above and below sea level 
- Counter on a DVD player or rewinding live TV

Section B: Student Activity 1



Ordering

1. Mark in all the integers from -12 to 12 on the number line shown below.



2. Use the number line above to say which is greater

(a) 0 or 7 _____ (b) -1 or 2 _____ (c) -6 or 7 _____
 (d) -4 or 2 _____ (e) 7 or -5 _____ (f) -10 or -2 _____
 (g) -10 or -12 _____ (h) -5 or -6 _____

3. Use the number line above to say which is smaller

(a) 1 or 4 _____ (b) 7 or 5 _____ (c) -6 or 8 _____
 (d) -4 or -2 _____ (e) -7 or 6 _____ (f) -8 or -2 _____
 (g) -10 or -3 _____ (h) -8 or -12 _____

4. Complete the statement: If one number is larger than another it lies _____ on the right side _____ on the number line.

5. From the following groups, list the numbers from the highest to the lowest (i.e. in decreasing order)

(i) 3, -5, 7, -3, 9. _____

(ii) 8, -6, -2, -3, 5. _____

(iii) -9, -7, 6, -3, -2. _____

(iv) 4, -7, 0, -4, -5. _____

5. Which of the following temperatures are colder?

(i) 8°C or 5°C _____

(ii) -7°C or 2°C _____

(iii) 0°C or 5°C _____

(iv) -8°C or -5°C _____

6. Insert the correct symbol $>$ or $<$ between the following numbers.

Example: $10 > 5$ because 10 is bigger than 5

i) 14	5	ii) -2	5	iii) 7	-3
iv) -10	-8	v) -100	-102	vi) 76	-76.

Addition and Subtraction

1. The number line shows $-4 + 6$ which gives 2



Use the number lines below to show the answers to the following questions. Show your work on the number lines.

i) $2 + 4$



Answer 6

ii) $-8 + 10$



Answer _____

4. The number line shows $2 - 7$ which gives -5

Start

Backward Steps

Answer



Use the number lines below to show the answers to the following questions. Show your work on the appropriate number line in each case.

i) $5 - 4$



Answer _____

5. The table below shows the temperatures in a number of cities. If the temperature in Galway is 15°C , fill in the table below to find the temperature in the various cities.

CITY	Warmer/Colder	Temperature
Galway		15°C
Dublin	2° colder than Galway	
Paris	10° warmer than Galway	
Moscow	20° colder than Galway	
New-York	4° warmer than Moscow	
Sydney	25° colder than Galway	
Cairo	10° warmer than Paris	
Oslo	3° colder than Moscow	

6. Find the values of each of the following.

a) $2 + (-4) + 5$ Answer _____

b) $7 + 6 + (-10)$ Answer _____

c) $8 + (-7) + (-6)$ Answer _____

d) $-2 + (-3) + (-3)$ Answer _____

7. Find the value of each of the following

a) $11 + (-2) + 3 + (-1) + 6 + (-4) + (-3)$ Answer _____

b) $-8 + 12 + (-2) + (-12) + 7 + (-7)$ Answer _____

c) $10 + (-2) + 14 + (-11) + 3 + (-8) + 12$ Answer _____

8. The scores, compared to par, for ten players in a golf tournament are listed in the following table. (See below for definition of par.)

Name	Round 1	Round 2	Round 3	Round 4	Total score compared to par
O'Brien	-2	-3	+3	Level (0)	
McCarthy	-1	+2	+2	+1	
Collins	Level (0)	Level (0)	-1	Level (0)	
O'Connor	+1	+2	-3	Level (0)	
Gallagher	-4	-1	+1	-2	
Ryan	+2	-2	Level (0)	+3	
Conneely	-1	Level (0)	-2	+4	
Cleary	-4	-3	-1	Level (0)	
Scanlon	+1	-3	Level (0)	-1	
Lyons	-3	+3	Level (0)	-1	