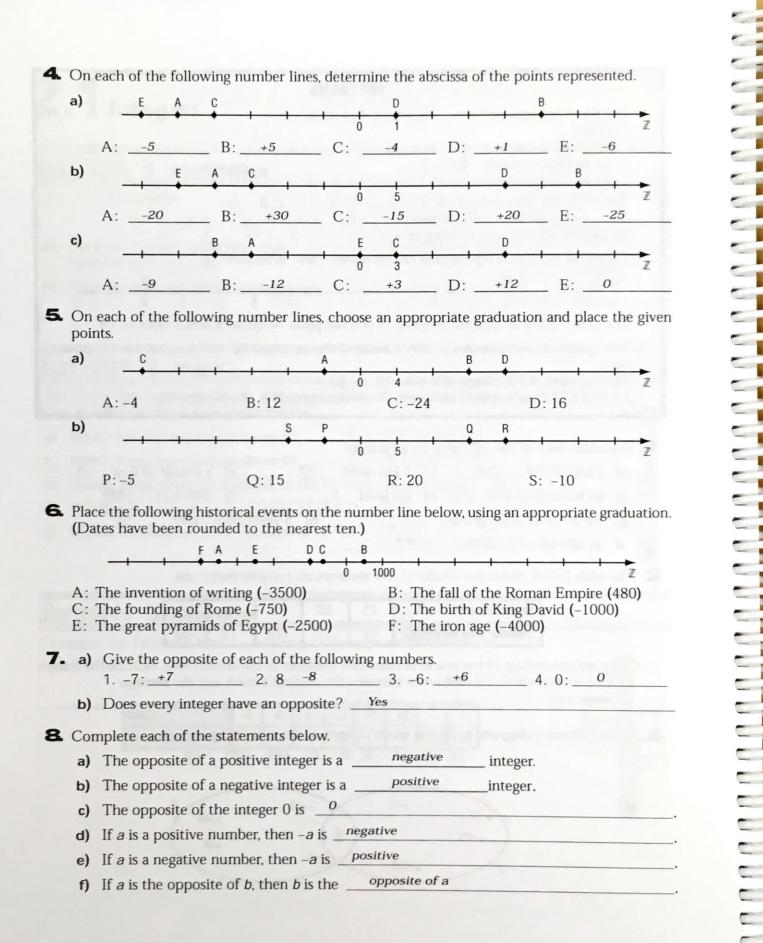


Student's mark	75	66	95	56	48	
Deviation from the average	+7	-2	+27	-12	-20	

Calculate the average of the marks of these five students. In the above table, indicate the integer which corresponds to the difference between the student's mark and the average. Average = 68

**3.** In the following diagram, place the given integers in the appropriate region. -12, +6, +4, -9, 0, -25, +18, -135, +56

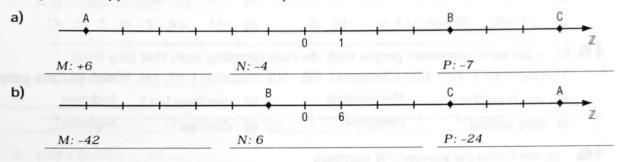
> •-12 •-9 •+18 •+56 •-25 0 ℤ\_ •-135 •+4 •+6



**9.** Consider the integer a = -9. Find: opp(a) = \_\_\_\_\_ opp(opp(a)) = \_\_\_\_\_ opp(opp(opp(a))) = \_\_\_\_\_

## **10** If *a* is an integer, simplify:

- $opp(opp(a)) = \_a$   $opp(opp(opp(a))) = \_-a$   $opp(opp(opp(opp(a)))) = \_a$
- **11.** In each case below, determine the values of the abscissas of points M, N and P if, respectively, they are the opposites of the abscissas of points A, B and C.



## ACTIVITY 4 Order of Integers

The table below indicates the temperatures at Gaspé, recorded at noon one week in March.

Day	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Temperature	-7 °C	-4 °C	+1 °C	-2 °C	+3 °C	-10 °C	-8 °C

a) On which of the following days was it colder?

- 1. Monday or Saturday? <u>Saturday</u> 2. Tuesday or Wednesday? <u>Tuesday</u>
- 3. Wednesday or Friday? <u>Wednesday</u> 4. Monday or Sunday? <u>Sunday</u>
- Arrange the days in increasing order of temperature. Saturday, Sunday, Monday, Tuesday, Thursday, Wednesday, Friday

## ORDER IN $\mathbb{Z}$

- When two integers are positive, the larger one is the one comprised of the larger natural number. Ex.: +8 > +2
- When two integers are negative, the larger one is the one comprised of the smaller natural number. Ex.: -4 > -6
- When two integers have opposite signs, the larger one is the positive number. Ex.: +8 > -10
- Every positive integer is greater than 0 and every negative integer is less than 0. Ex.: +7 > 0 and -5 < 0

**12** Complete the following numerical statements using the symbol > or <.

a)	-5 < 5	<b>b)</b> -3 > -7	c) $5 > -8$	<b>d)</b> -4 < 0
e)	4 > 0	<b>f</b> ) −8 < −2	<b>g)</b> -12 < 18	<b>h)</b> −9 < 3