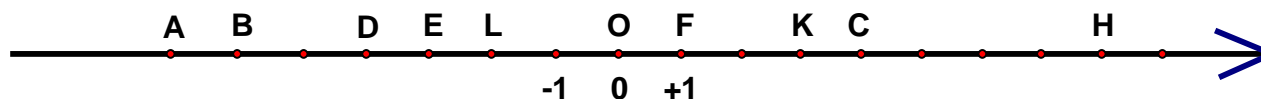


MATHEMATICS

I) Refer to the graduated axis below to answer the questions that follow:



- 1) Copy the given axis neatly and write all the missing abscissas.
- 2) Name the midpoint of each of the following segments:
  - a) [BL]      b) [CD]      c) [DL]
- 3) Copy and complete:
  - a) Points L and D are symmetrical with respect to point: \_\_\_\_
  - b) Points H and O are symmetrical with respect to point: \_\_\_\_
- 4) a) What is the image of 4?  
b) What is the abscissa of point B?
- 5) Determine the following distances:
  - a)  $AF =$  \_\_\_\_
  - b)  $KE =$  \_\_\_\_
- 6) Name two segments whose midpoint is E.
- 7) Name two points whose distance from K is 5 units.
- 8) What relation exists between the abscissas of points C and D?
- 9) Compare. Use the symbols:  $<$  or  $>$ .
  - a)  $-6 \dots -7$       b)  $-4 \dots 4$       c)  $3 \dots -7$

II) Calculate each of the following expressions. The calculator is NOT allowed.

- |                |                    |                     |                    |                |
|----------------|--------------------|---------------------|--------------------|----------------|
| 1) $-4 - 5$    | 2) $-4 + 5$        | 3) $4 - 5$          | 4) $+(-4)$         | 5) $-(+4)$     |
| 6) $-(-4)$     | 7) $3 \times (-5)$ | 8) $-3 \times (-5)$ | 9) $-3 \times 5$   | 10) $5^2$      |
| 11) $-12 + 12$ | 12) $-6 \times 6$  | 13) $-6 \div 6$     | 14) $-6 \div (-6)$ | 15) $2 \div 5$ |

III) Perform. Remember to follow the order of calculation (priorities).

Show your work space. Do NOT depend on the calculator for answers

- |                                   |   |                          |   |
|-----------------------------------|---|--------------------------|---|
| 1) $2 + 3 \times 4$               | 2) $15 - 6 \div 2$                                | 3) $22 - 8 + 4 \times 2$ | 4) $12 \div 2 + 24 \div 3 - 7 \times 2$ |
| 5) $30 - (45 - 6 \times 7) - 3^2$ | 6) $-3.4 - 5.3 \times 2 - [-12 \times (4 - 4.9)]$ | 7) $-5.2 \times 1.2$     |   |
| 8) $18 \div (-6) - 5 \div (-2)$   | 9) $17 - 4^2 + 2 \times 1^3 - (2 \times 5)^2$     | 10) $2 \div 5^2$         |   |
| 11) $5 \times 0.02$               | 12) $40 \times 0.25$                              | 13) $-800 \times 0.125$  | 14) $-16 \div 4^2$                      |

IV) Arrange from least to greatest:

- 1)  $-45.6$ ;  $-45.06$ ;  $-45.62$ ;  $-54.1$ ;  $-45.602$
- 2)  $\frac{1}{2}$  ;  $\frac{3}{4}$  ;  $\frac{3}{10}$  ;  $\frac{-2}{5}$  ;  $\frac{-3}{10}$

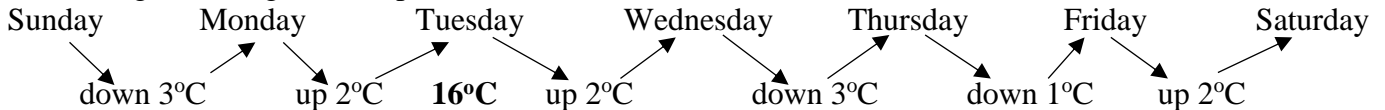
- V) 1) Calculate  $A = -9 - (4 - 5 - 6)$ ,  $B = -4 \times (6 - 5)$ ,  $C = -0.5 \div 0.2$ .  
 2) Arrange  $A$ ,  $B$  and  $C$  in increasing order.  
 3) Perform:  $A+B - C$

VI) Copy then find the missing number:

- 1)  $\dots + 8 = -12$                       2)  $-6 \times \dots = -12$                       3)  $-16 \div \dots = -(-2)$   
 4)  $\dots - (-8) = 4$                       5)  $-3 \times 4 = 2 \times (\dots)$                       6)  $8 \times (\dots - 6) = -8$

VII) 1) In a card game, Wassim gained 10 points, then lost 14 points, then lost 2 points and finally earned 15 points. What was his final score?

2) Following are changes in temperature over one week in December:



- a) Copy the list of days of the week and figure out the temperatures on Sunday, Monday, Wednesday, Thursday, Friday and Saturday.  
 b) Which day was the warmest?  
 c) Which two days were the coolest?  
 d) What was the difference between the maximum and minimum temperatures during this week?
- 3) Teams X and Y are competing against each other:  
 Results of Team X:  $+4$  ;  $-7$  ;  $+9$  ;  $-8$   
 Results of Team Y:  $+3$  ;  $+5$  ;  $-4$  ;  $0$   
 a) Which team got a higher total?  
 b) The team which scored closer to zero wins. Which team won?

----- END OF PRACTICE 1 -----