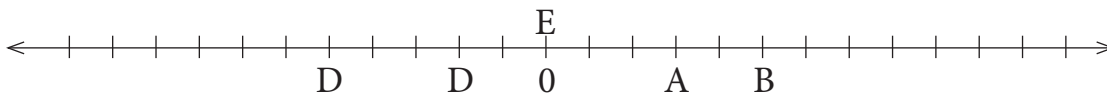


Negative Numbers

Q1. State true or false:

- a. 1 is the smallest whole number. _____
- b. 0 is greater than every negative integer. _____
- c. 0 is neither positive nor negative and hence it is not an integer. _____
- d. All positive integers are natural numbers. _____

Q2. If Point E represents 0 on the number line given below, write the name of the points that represent the following:



- a. 5 : _____
- b. -5 : _____
- c. 3 : _____
- d. -2 : _____

Q3. Compare and put the sign $<$, $>$ or $=$

- a. -6 _____ -7
- b. 2 _____ -2
- c. -10 _____ 0
- d. -40 _____ -30

Q4. Arrange the following integers in ascending order:

0, -7, -10, 9, 17, -20, 10

Answer: _____

Q5. Fill in the blanks:

- a. Absolute value of +24 is _____ and absolute value of -35 is _____.
- b. $|-11| =$ _____ and $|+11| =$ _____.
- c. If absolute value of a number = the number itself; then the number is either _____ or _____.

Q6. Solve:

a. $(-4) + (+9) = \underline{\hspace{2cm}}$

b. $(-5) + (-7) = \underline{\hspace{2cm}}$

c. $(+9) - (-6) = \underline{\hspace{2cm}}$

d. $(+7) - (+5) = \underline{\hspace{2cm}}$

Q7. Match the following:

$2 + 3 =$	$7 - (-5)$
$7 - 5 =$	$3 + (-2)$
$7 + 5 =$	$3 - (-2)$
$3 - 2 =$	$7 + (-5)$

Q8. Out of the following integers, find which integers will appear on the right and which will appear on the left of Zero on the number line. Write 'R' for right and 'L' for left.

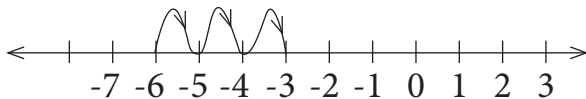
a. -8 : $\underline{\hspace{2cm}}$

b. 4 : $\underline{\hspace{2cm}}$

c. -10 : $\underline{\hspace{2cm}}$

d. 14 : $\underline{\hspace{2cm}}$

Q9. Find which expression is depicted on the number line given below and choose the correct option:



a. $-6 - 3 = -3$

b. $-6 + (-3) = -3$

c. $-6 + 3 = -3$

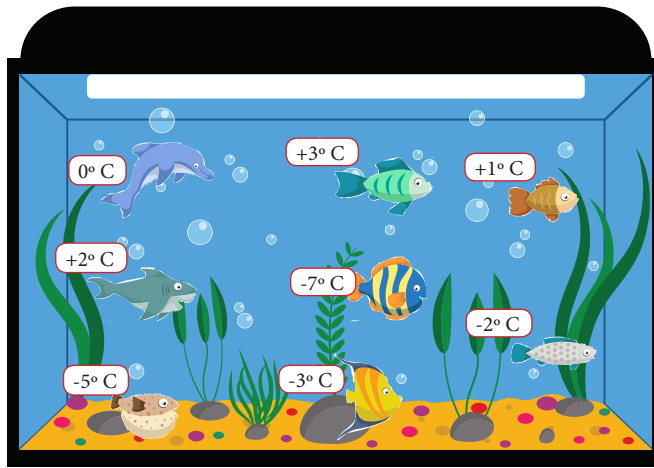
Q10. In the rapid fire round each team is asked 5 questions. 10 points are given for each correct answer and -5 for each incorrect answer. Help Ashish calculate the points after every question by filling in the missing entries in the score card.

Question Number	Result	Points scored in the question	Calculation of points	Points at the end of question
Q1	Correct	10	10	10
Q2	Incorrect	-5	$10 + (-5)$	5
Q3	Incorrect	-5	$5 + (-5)$	0
Q4	Incorrect	$\underline{\hspace{2cm}}$	$\underline{\hspace{2cm}}$	$\underline{\hspace{2cm}}$
Q5	Incorrect	$\underline{\hspace{2cm}}$	$\underline{\hspace{2cm}}$	$\underline{\hspace{2cm}}$

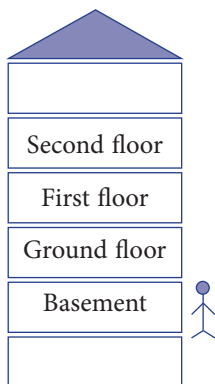
Q11. Fill in the blanks with the correct integer:

- a. The greatest 2 digit negative integer is _____.
- b. The smallest 2 digit positive integer is _____.
- c. The predecessor of -7 is _____.
- d. The successor of -10 is _____.

Q12. The numbers written on the tail of the fish below, represent the temperature in which each of them is swimming. Circle the fish that is swimming in the least temperature:



Q13. If the ground floor of the given building represents level zero, then at which level is the man standing? Choose the correct answer from the options given below:



- a. Level +1
- b. Level -1
- c. Level +2
- d. Level -2

Q14. Perform the following additions and help the dog reach the bone:



5	+	-3	=	—	+	5	=	—	+	-4	=	—	+	7	=	10
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Q15. Fill in the blanks with the correct integer:

- If +15 represents Gain of 15%, then loss of 15% will be represented by: _____
- If +30 represents 30 m above sea level, then 45 m below sea level will be represented by: _____
- If the fall in temperature is 20°C, it is represented as -20, then 40°C rise in temperature will be represented as: _____

ANSWERS

1.
 - a. False
 - b. True
 - c. False
 - d. True
2. a. point B; b. point D; c. point A; d. point C
3.
 - a. >
 - b. >
 - c. <
 - d. <
4. $-20 < -10 < -7 < 0 < 9 < 10 < 17$
5.
 - a. 24, 35
 - b. 11, 11
 - c. 0, positive
6.
 - a. 5
 - b. -12
 - c. 15
 - d. 2
7.

$2 + 3 =$	$3 - (-2)$
$7 - 5 =$	$7 + (-5)$
$7 + 5 =$	$7 - (-5)$
$3 - 2 =$	$3 + (-2)$
8.
 - a. L
 - b. R
 - c. L
 - d. R
9. (c)

10.

Question Number	Result	Points scored in the question	Calculation of points	Points at the end of question
Q1	Correct	10	10	10
Q2	Incorrect	-5	$10 + (-5)$	5
Q3	Incorrect	-5	$5 + (-5)$	0
Q4	Incorrect	<u>-5</u>	$0 + (-5)$	<u>-5</u>
Q5	Incorrect	<u>-5</u>	$-5 + (-5)$	<u>-10</u>

11. a. -10
b. 10
c. -8
d. -9

12. -7°C

13. (b)

14.

5	+	-3	=	<u>2</u>	+	5	=	<u>7</u>	+	-4	=	<u>3</u>	+	7	=	10
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15. a. -15
b. -30
c. +40