

INDIAN SCHOOL AL WADI AL KABIR

Class VII, Mathematics (2022-23)

Worksheet DTQ – INTEGERS

SHORT ANSWER TYPE QUESTIONS- 7 QUESTIONS. (2 Marks each)

Q1.

Akhil is standing in the middle of a bridge which is 20 m above the water level of a river. If a 35 m deep river is flowing under the bridge, then find the vertical distance between the foot of Akhil and bottom level of the river.

Q2.

Find the odd one out of the four options given below:

(a) $(-3, -6)$

(b) $(+1, -10)$

(c) $(-2, -7)$

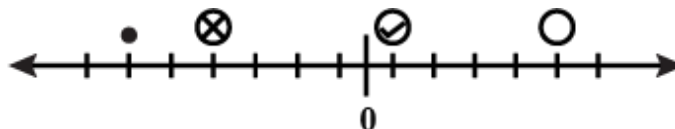
(d) $(-4, -9)$

Q3.

Verify : $(-18) \times [(-6) + (-7)] = [(-18) \times (-6)] + [(-18) \times (-7)]$

Q4.

If \otimes , \ominus , \circ , and \bullet represent some integers on number line, then write the descending order of these numbers.

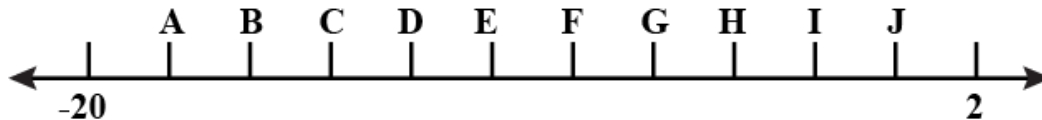


Q5.

A boy standing on the third stair on a staircase goes up by five more stairs. Which stair is he standing at now? At which step will he be after he comes down by 2 stairs?

Q6.

On the following number line, $(-4) \times 3$ and $(-18) \div 3$ are represented by the points



Q7.

Write a pair of integers whose product is -15 and whose difference is 8.

SHORT ANSWER TYPE- 5 QUESTIONS. (3 Marks each)

Q8.

Water level in a well was 20 m below ground level. During rainy season, rain water collected in different water tanks was drained into the well and the water level rises 5 m above the previous level. The wall of the well is 1m 20 cm high and a pulley is fixed at a height of 80 cm. Raghu wants to draw water from the well. Find the minimum length of the rope that he can use.



Q9.

The table given below shows the elevations relative to sea level of four locations. Taking sea level as zero, answer the following questions:

Location	Elevation (in m)
A	-180
B	1600
C	-55
D	3200

- Which location is closest to sea level?
- Which location is farthest from sea level?
- Arrange the locations from the least to the greatest elevation.

Q10.

Evaluate:

- | | |
|---------------------------------|---------------------------------------|
| (i) $[(-136) \div 4] \div (-2)$ | (ii) $[(-90) \div (-45)] - 144$ |
| (iii) $38 \div [(-2) + 1]$ | (iv) $[(-6) + (-12)] \div [(-3) + 2]$ |

Q11.

Find the product using suitable property and state the property used:

- | | |
|--------------------------------------|---|
| (i) $(-2) \times (-607) \times (-5)$ | (ii) $(-121) \times (-78) + (-121) \times (68)$ |
| (iii) $(-16) \times 102$ | |

Q12.

(i) Taking today as zero on the number line, if the day before yesterday is 17th of January, what is the date 3 days after tomorrow?

(ii) Find the value by suitable rearrangement: $-456 + 221 - 544 + 79$

