

BHARATH COACHING CENTRE

7th cbse

Maths

Total: 50

Integers

Time: 45 mins

SECTION-A

$$1 \times 6 = 6$$

1. Write two pairs of integers such that $a \div b = 5$
2. Taking today as zero on the number line of the day before yesterday is 5 January, what is the date 3 days after tomorrow
3. The additive inverse of a negative integer is
4. As per distributive law, $a \times (b+c) = ?$
5. If the dividend and the divisor have like signs, what is the sign of the quotient?
6. The arrangement of integers 20, -1, 0, -5, -21, -9 in ascending order is

SECTION-B

$$5 \times 2 = 10$$

1. What is the value of $[(-36) \div 12] \div 3 + [(-6) + 5] \div [(-2) + 1]$
2. What is the integer obtained by adding additive inverse of -53 to additive inverse of 35?
3. A certain freezing process requires that room temperature be lowered from 40°C at the rate of 5°C every hour. What will be the room temperature 10 hours after the process begins?
4. If X and Y are two integers such that X is the predecessor of Y. Find the value of (x-y).
5. The sum of two integers is -29. If one of them is 475, Find the other.

SECTION-C

$$4 \times 3 = 12$$

1. Mohan deposits Rs.3500/- into his bank account after 3 days, he deposits Rs.500/-. Two days after that, he withdraws Rs.1800 from his account. 7 days later, he again withdraws Rs.1700/- from his account?

2. A diver descends 20 feet in the water from the boat at the surface of a lake. He then rose 12 feet and descends another 18 feet. At this point what is his depth in water?
3. A person goes 70m towards east, from that point he goes 80m towards west. If the distance towards east he is represented by positive integer. What is the distance between the starting point and the person?
4. I note in my account book positive numbers for profits and negative numbers for losses that I make in my business. These are the entries in the book for the last seven days: 21, -19, 11, -20, 17, 25 and -13. How much profit did I make in the last week?

SECTION-D

$$3 \times 4 = 12$$

1. In an Examination [+2] marks are given for every correct answer and (-0.5) marks is given for every wrong answer and 0 for non-attempting any question
 - A) Hema score 30 marks. If she got 3 correct answers. How many questions she has attempted incorrectly?
 - B) Madhu scores -4 marks if she got 3 correct answers. How many were incorrect
2. Suppose we respect the distance above the ground by a positive integer and that below the ground by a negative integer. If an elevator descends at a rate of 5m/min and begins to descend from 15m above the ground, what be its position after 45 minutes?
3. In a test 4 marks are given for every correct answer and -2 marks for every incorrect answer. Asha answered all the questions and scored 26 marks though she got nine correct answers. Varun also answered all the questions and scored 2 marks though he got five correct answers. How many questions did each answer incorrectly?