INTEGERS

1. Write down a pair of integers where-
   a. Sum is -3
   b. Difference is -5
   c. Difference is 2
   d. Sum is zero
2. Use the sign of $>/=/<$ to fill in the blanks.
   a. $(-8) + (-4)$ _____ $(-8) - (-4)$
   b. $23 - 41 + 11$ _____ $23 - 41 - 11$
   c. $39 + (-24) - 15$ _____ $36 + (-52) - (-36)$
   d. $(-3) + 7 - (19)$ _____ $15 - 8 + (-9)$
3. Find:
   a. (-49×18)
   b. $(-25) \times (-31)$
   c. $70 \times (-19) + (-1) \times 70$
4. Calculate-
   a. $(-31) \times (-100)$
   b. $(-25) \times (-72)$
   c. $(-83) \times (-28)$
5. Suppose we represent the distance above the ground by a positive integer and that below the ground by a negative integer, then answer the following-
   a. An elevator descends into a mine shaft at the rate of 5m/s. What will be its position after 1 hour?
   b. If it begins to descend from 15m above the ground, what will be its position after 45 minutes?
6. Simplify:
   a. $(-8) \times 9 + (-8) \times 7$
   b. $20 \times (-16) + 20 \times (-14)$
   c. $(-16) \times (-8) + (-4) \times (-8)$
   d. $(-28) \times 72 + (-26) \times 28$
7. A shopkeeper gains Rs. 1 on each pen and incurs a loss of 40p on each pencil. He sells 45 pens and some pencils, losing Rs 5 in total. How many pencils does he sell?
8. In a class test-
   a. Containing 20 questions, 4 marks are given for every correct answer and (-2) marks for each incorrect answer. Ranjitha attempts all questions and 12 of her answers are correct. What is her total score?
   b. 5 marks are given for correct answer and (-2) for incorrect answer. Rahul got 20 marks while he has done 6 correct answers. If he has attempted all questions, how many did he get wrong?