Board – CBSE	Class – 7th	Topic – Integer 1.2

Q.1 Write down a pair of integers whose:

(a) Sum is -7 (b) Difference is -10 (c) Sum is 0

Sol: (a) One such pair whose sum is -7: $(-5, -2)$ $(-10, 3)$

(b) One such pair whose difference is -10: $(-2, 8)$, $(-11, -1)$

(c) One such pair whose sum is 0: $(5, -5)$, $(6, -6)$

Q.2 (a) Write a pair of negative integers whose difference gives 8.

(b) Write a negative integer and a positive integer whose sum is -5.

(c) Write a negative integer and a positive integer whose difference is -3.

Sol: (a) $(-2, -10)$ $(-5, -13)$

(b) $(-7, 2)$, $(-9, 4)$

(c) $(-1, 2)$, $(-2, 1)$

Q.3 In a quiz, team A scored -40, 10, 0, and team B scored 0, 10, -40 in three successive rounds. Which team scored more? Can we say that we can add integers in any order?

Sol: Team A scored -40, 10, 0

Total score of Team A $= -40 + 10 + 0 = -30$

Team B scored 0, 10, -40

Total score of Team B $= 0 + 10 + (-40) = 0 + 10 - 40 = -30$

Thus, scores of both teams are same.

Yes, we can add integers in any order due to commutative property.

Q.4 Fill in the blanks to make the following statements true:

(i) $(-5) + (-8) = (-8) + (\ldots\ldots)$

(ii) $-53 + (\ldots\ldots) = -53$

(iii) $17 + (\ldots\ldots) = 0$

(iv) $[13 + (-12)] + (\ldots\ldots) = 13 + [(-12) + (-7)]$

(v) $(-4) + [15 + (-3)] = [-4 + 15] + (\ldots\ldots\ldots\ldots)$

Sol: (i) $(-5) + (-8) = (-8) + (-5)$ [Commutative property]

(ii) $-53 + 0 = -53$ [Zero additive property]

(iii) $17 + (-17) = 0$ [Additive identity]

(iv) $[13 + (12)] + (-7) = 13 + [(-12) + (—7)]$ [Associative property]

(v) $(-4) + [15 + (-3)] = [-4 + 15] + (-3)$ [Associative property]