**Dr. Virendra Swarup Education Centre, Panki, Kanpur**

**CLASS-VI**

**Practice Sheet: Integers**

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**Q.1:** Write the following numbers with appropriate signs :

 (a) 100 m below sea level.

 (b) 25°C above 0°C temperature.

 (c) 15°C below 0°C temperature.

 (d) any five numbers less than 0.

**Q.2:** Compare the following pairs of numbers using > or <.

 (i) 0 □ -8;

 (ii) – 1 □ – 15;

 (iii) 5 □ – 5;

 (iv) 11 □ 15;

 (v) 0 □ 6;

 (vi) – 20 □ 2

Q.3-From the above exercise, Rohini arrived at the following conclusions :

 (a) Every positive integer is larger than every negative integer.

 (b) Zero is less than every positive integer.

 (c) Zero is larger than every negative integer.

 (d) Zero is neither a negative integer nor a positive integer.

 (e) Farther a number from zero on the right, larger is its value.

 (f) Farther a number from zero on the left, smaller is its value.

 Do you agree with her? Give examples.

**Q.4-** Represent the following numbers on a number line

 (a) + 5

 (b) – 10

 (c) + 8

 (d) – 1

 (e) – 6

**Q.6:** In each of the following pairs, which number is to the right of the other on the number line?

 (a) 2, 9

 (b) – 3, – 8

 (c) 0, – 1

 (d) – 11, 10

 (e) – 6, 6

 (f) 1, – 100

**Q.7:** Write all the integers between the given pairs (write them in the increasing order.)

 (a) 0 and – 7

 (b) – 4 and 4

 (c) – 8 and – 15

 (d) – 30 and – 23

**Q.8:** (a) Write four negative integers greater than – 20.

 (b) Write four integers less than – 10.

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**CLASS - VI**

**Practice Sheet: Simplification**

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**Simplify:**

**1.** 4/7 ÷ [1 2/7 - 3/14]

**2.** 7 + {1/3 + 2/9 × (7/4 - 5/12) }

**3.** {(10 1/3 - 2/9) ÷ 5/18} of (3/8 + 1/4)

**4.** 4 1/3 - {17/4- (5 1/4 × 2 1/2) }

**5.** 71/3 - 21/4 (2 1/5 × 3/4)

**6.** 15/21 of 45/3 – 1/15 ÷ 3/7

**7.** 3/16 + 13/16 ÷ 2 9/15 ÷ 1 1/3

**8.** ¾ of 16/27 + 23/14 + 12/18

**9.** 7/9 × 1 1/5 ÷ 8/15

**10.** (1/5 + 4/5) of 3 1/3

**11.** 6/17 × 34/15 – 6/35 of 2 1/3

**12.** 4/7 ÷ 5/7 × 9/11

**13.** 6 1/3 ÷ 3/5 of 19/9+6/3

**14.** 12/7 of 21 + 15/4 ÷ 3/7 – 4/3

**15.** 11/5 + 4/21 of 42 - 18/5 ÷ 27/45