EXERCISE 1D

Mark against the correct answer in each of the following:

1. **6-(-8) =?**

   a) -2 b) 2 c) 14 d) none of the above

   Solution:-
   = 6-(-8)
   = 6+8
   = 14(c)

2. **-9-(-6) =?**

   a) -15 b) -3 c) 3 d) none of these

   Solution:-
   = -9- (-6)
   = -9 +6
   = -3 (b)

3. **By how much does 2 exceed -3?**

   a)-1 b) 1 c)-5 d)5

   Solution:-
   = 2-(-3)
   = 2+3
   =5(d)

4. **What must be Subtract from -1 to get -6?**

   a) 5 b) -5 c) 7 d) -7

   Solution:-
   Let us assume closure property of subtraction [a-b=c]
   Let,
   a= -1, missing integer b= x, c=-6
   = -1-(x) =-6
   = -1+6 = x
   (By sending -6 from the right hand side to the left hand side it becomes 6 and –x from the left hand side to the right hand side it becomes x)
   = x = 5(a)

5. **How much less than -2 is -6?**

   a) 4 b) -4 c)8 d)-8

   Solution:-
   = (-2)-(-6)
   = -2 + 6
   = 4(a)

6. **On subtracting 4 from -4, we get**

a) 8 b) -8 c)0 d)none of these

Solution:-
= -4-(+4)
=-4-4
=-8(b)

7. By how much does -3 exceed -5?

a) -2 b) 2 c) 8 d) -8

Solution:-
= (-3) – (-5)
= -3+5
= 2(b)

8. What must be subtracted from -3 to get -9?

a) -6 b) 12 c) 6 d)-12

Solution:-
Let us assume closure property of subtraction [a-b=c]
Let,
a= -3, missing integer b= x, c=-9
= -3-(x) =-9
= -3+9 = x
= x = 6(c)

9. On subtracting 6 from -5, we get

a) 1 b) 11 c) -11 d)none of these

Solution:-
= -5-(+6)
=-5 - 6
=-11(d)

10. On subtracting -13 from -8, we get

a) -21 b) 21 c)5 d) -5

Solution:-
= -8 – (-13)
= -8 + 13
= 5(c)

11. (-36) ÷ (-9) =?

a) 4 b) -4 c)none of these

Solution:-
= $\frac{-36}{-9}$
= 4(a)

12. 0 ÷ (-5) =?

a) -5 b) 0 c) not defined

Solution:-

= $\frac{0}{-5}$

= 0 (b) (when zero is divided by any non-zero number, then the quotient is zero)