WORK SHEET
SUBJECT- MATHS
Chapter 1- Integers

CLASS- VII **Date- 25.7.14**

I. Perform the following operations on Integers :-

1. (+5) + (+2)
2. (-5) + (-2)
3. (+5) + (-2)
4. (-5) + (+2)
5. (+7) + (+3)
6. (-7) + (-3)
7. (+7) + (-3)
8. (-7) + (+3)
9. (+9) + (+4)
10. (-9) + (-4)
11. (+9) + (-4)
12. (-9) + (+4)
13. (-7) +(-2)
14. (-7) +(+2)
15. (+7) +(-2)

II. Perform the following operations on Integers :-

1. (+5) - (+2)
2. (-5) - (-2)
3. (+5) - (-2)
4. (-5) - (+2)
5. (+7) - (+3)
6. (-7) - (-3)
7. (+7) - (-3)
8. (-7) - (+3)
9. (+9) - (+4)
10. (-9) - (-4)
11. (+9) - (-4)
12. (-9) - (+4)
13. (-7) - (-2)
14. (-7) - (+2)
15. (+7) -(-2)

III. Perform the following operations on Integers :-

1. (+5) X (+2)
2. (-5) X (-2)
3. (+5) X (-2)
4. (-5) X (+2)
5. (+7) X (+3)
6. (-7) X (-3)
7. (+7) X (-3)
8. (-7) X (+3)
9. (+9) X (+4)
10. (-9) X (-4)
11. (+9) X (-4)
12. (-9) X (+4)
13. (-7) X(-2)
14. (-7) X (+2)
15. (+7) X (-2)
16. -8 / -2
17. -8/2
18. 8/(-2)
19. 24/(-2)
20. -18/6

IV. Find (a) (-7)-8-(-25) (b) (-13) + 32-8-1 (c) (-7) + (-8) + (-90) (d) 50-(-40)-(-2)

V. Fill in the blanks with <,> or = sign.

(a) (-3) + (-6) _____ (-3)-(-6)

(b) (-21)-(-10) _____ (-31) + (-11)

(c) 45-(-11) _____ 57+(-4)

(d) (-25)-(-42) _____ (-42)-(-25)

VI. Fill in the blanks using >,< or = sign.

(a)(-8) + (-4) ☐ (-8) - (-4)

(b) (-3) + 7 – (19) ☐ 15 -- 8 + (-9)

(c) 23 – 41 + 11 ☐ 23 –-41 – 11

(d) 39 + (-24) – (15) ☐ 36 --(-52) – (-36)

(e) -231 + 79 + 51 ☐ -399 + 159 + 81

VII. Fill in the blanks

(a)(-8) + _____=0 (b) 13 + _____=0

(c)12 + (-12)=_____ (d) (-4) + _____=-12

(e)_____-15=-10

VIII. (i) Find each of the following products.

(a)(-20) X (-2) X (-5) X 7 (b)(-1) X (-5) X (-4) X (-6)

(ii) Fill in the blanks

(a)(-3) X _____=27 (b) 5 X _____=-35 (c)_____ X (-8)=(-56) (d)_____ X (-12)=132

IX. Solve

(a)(-30) / 10

(b)50 / (-5)

(c)(-36) / (-9)

(d)(-49) / 49

(e)13 / {(-2) + 1}

(f)0 / (-12)

(g)(-31) / {(-30) + (-1)}

(h)({(-36) + 12} / 3

(i){(-6) + 5)} /{(-2 + 1)}

X. Fill in the blanks

(a)369 /_____=369 (b)(-75) / _____=-1 (c) (-206) / _____=-1 (d)-87 / _____=87

(e)_____ / 1 = -87 (f) _____/ 48=-1 (g) 20 / _____=-2 (h) _____ /(4)=-3

XI. Solve using suitable properties :-

1) (-5782396) X 9+5782396 X (-1)
2) 8326429 X (-98) + (-8326429) X (-2)
3) (-7624928) X 997 + (7624928) X (-3)
4) (-98) X (-9) + 98
5) (-237) X (-99) + 237
6) (-563) X (-999)+ 563
7) 7 X (50-2)
8) 253 X (100-1)
9) 567 X (1000-1)
10) (-41) X 102
11) (-34) X 1002
12) (-67) X 101
13) (-84) X 99
14) (-24) X 998
15) (-17) X 9997
16) (-17) X (-29)
17) (-27) X (-39)
18) (-37) X (-49)
19) 8 X 53 X (-125)
20) 8 X 56739 X (-125)
21) (-8) X 32597 X 12
22) 8 X (-63298) X 125
23) (-8) X (-53) X 125
24) 8 X (-56739) X (-125)
25) 15 X (-25) X (-4) X (-10)
26) 23 X (-25) X (-4) X (-10)
27) 627 X (-125) X (-8)
28) 583 X (-125) X (-5) X 16
29) (-749) X 25 X (-250) X 16
30) 183X (-25) X 8 X 5

XII. In a class test containing 15 questions, 4 marks are given for every correct answer and (-2) marks for every incorrect answer.(i) Gurpreet attempts all questions but only 9 of her answers are correct. What is her total score? (ii) One of her friends gets only 5 answers correct. What will be her score?

XIII. In a class test containing 10 questions, 5 marks are awarded for every correct answer and (-2) marks are awarded for every incorrect answer and 0 for not attempting any of the questions.

(a) Mohan gets 4 correct answers and 6 incorrect answers. What is his score?

(b) Reshma gets 5 correct and 5 incorrect answers. What is her score?

(c) Heena gets 2 correct and 5 incorrect answers out of 7 questions she attempted. What is her score?

XIV. In a test (+5) marks are given for every correct answer and (-2) for incorrect answer

(i) Radhika answered all the questions and scored 30 marks though she got 10 correct answers

(ii) Jay also answered all the questions and scored (-12) marks though he got 4 correct answers. How many incorrect questions did they attempt?

XV. In a class test + 3 marks are given for every correct answer and -2 marks are given for every incorrect answer and no marks for not attempting any question –

i) Radhika scored 20 marks if she has got 12 correct answers. How many questions had she attempted incorrectly?

ii) Mohini scored -5 marks in the test though she had got 7 correct answers. How many questions had she attempted incorrectly?

XVI. An elevator descends into the mine shaft @ 6 min per minute. If it descends from 10m above the ground, how long will it take to reach -350m?

XVII. Suppose we represent the distance above the ground, what will be its positive integer and that below the ground by a negative integer, then answer the following: -

(i) An elevator descends into a mine shaft at the rate of 5 m per minute. What will be its position after 1 hour?

(ii) If it begins descending from 15 m above the ground, what will be its position after 45 minutes?

XVIII. A certain freezing process requires that room temperature be lowered from 40^{o} C at the rate of 5^{o} C every hour. What will be the room temperature 10 hours after the process begins?

XIX. The temperature at the noon was 10℃ above zero. If it decreases @ 2℃ per hour until midnight, at what rate would the temperature will be 8℃ below zero? What would be the temperature at midnight?

XX.A cement company earns a profit of Rs 8 per bag of white cement sold and a loss of Rs 5 per bag of grey cement sold.

(a) The company sells 3,000 bags of white cement and 5,000 bags of grey cement in a month. What is its profit or loss?

(b) What is the no. of white cement bags it must sell to have neither profit nor loss, if the no. of grey bags sold is 6,400 bags.

Q (21) A shopkeeper earns a profit of Re 1 by selling 1 pen and incurs a loss of 40 paise per pencil while selling pencils of her old stock.

(i) In a particular month she incurs a loss of Rs 5. In this period, she sold 45 pens. How many pencils did she sell in this period?

(ii) In the next month she earns neither profit nor loss. If she sold 70 pens, how many pencils were sold?