

Date: - April 17, 2017

Home Assignment

CLASS - VII

Ch- 1 Integers

Q1 Find the value of the following expressions

(a)  $1982 \times (-16) + (-1982) \times 84$

[Ans  $\rightarrow -198200$ ]

(b)  $(-87) \times (-19) + 87$

(Ans  $\rightarrow 1740$ )

Q2 A certain freezing process requires that room temperature be lowered from  $60^\circ\text{C}$  at the rate of  $4^\circ\text{C}$  every hour. What will be the room temperature 18 hours after the process begins?

[Ans  $-12^\circ\text{C}$   
after 18 hrs]

Q3 Verify that

$a \div (b+c) \neq (a \div b) + (a \div c)$  for the given values of

$a, b, c$ .  $a = 24, b = -8, c = 4$

[Ans LHS = -6  
RHS = 3  
LHS  $\neq$  RHS]

Q4 A shopkeeper earns a profit of  $\text{₹}1$  by selling one 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  $\text{₹}5$ . 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 did she sell?

[Ans (i) 125 pencils

(ii) 175 pencils]

Q5 A submarine descends at the rate of 10m per minute. What will be the position of the submarine after (a) half an hour

(b)  $1\frac{1}{2}$  hours

[ (a) -300m  
(b) -900m ]

Q6 Using the properties of multiplication, find the following products

(a)  $-199 \times 25$

(b)  $2 \times (-379) \times 50 \times (-10)$

(c)  $4 \times (-512) \times 25$

[ Ans (a)  $-4975$   
(b)  $3,79,000$   
(c)  $-5,12,000$  ]

Q7 Fill in the blanks to make the following statements true

(a)  $918 \times \text{---} = 0$

(b)  $(-30) \times \text{---} = (-270)$

(c)  $(-756) \times \text{---} = 756$

(d)  $\text{---} \div (-3) = 4$

(e)  $272 \div \text{---} = (-1)$

Q8 Write 4 pairs of integers  $a$  and  $b$  such that  $a \div b = -5$

Q9 In a competitive examination, 5 marks are awarded for every correct answer and 3 marks are deducted for every wrong answer. Atul scored 35 marks when 10 of his answers were correct. Subodh answered 8 questions correctly and his score was 19. Find the number of questions answered wrongly by both of them

[ Atul  $\rightarrow 5$   
Subodh  $\rightarrow 7$  ]

Q10 At the end of the fifth round of a quiz competition, Sujata's score was 115. In the final round, she lost 3 points each for 8 questions and gained 5 points each for 7 questions. What was her final score?

[ Ans 126 points ]