



**RAMAGYA SCHOOL, NOIDA**  
VII/MATHEMATICS/2017-18  
OLYMPIAD PRACTICE WORKSHEET

**(Value Based)**

1. A man walked 3 km towards North then 8 km towards South. His position at the end of the walk is  
a. 5km towards East      b. 3km towards South      c. 8km towards North      d. 5km towards South
2. One integer is greater than the other by +4. If one number is -16 then the other is  
a. 12      b. 0      c. -1      d. -12
3. An integer is divided by 8 giving a remainder of 4. The resulting quotient when divided by 5 gives a remainder of 3. The resulting quotient is then divided by 8 giving a quotient of 1 and a remainder of 6. What will the final remainder be if the order of the divisors is reversed?  
a. 9      b. 7      c. 6      d. 8
4. Sara is in the process of making ice cream. She has heated all the ingredients to 40 °C and put them in refrigerator to freeze. If the cooling rate is 9 °C per hour, the temperature in freezer after 12 hours will be °C.  
a. -128°C      b. -48°C      c. 128°C      d. 48°C

**(Concept Based)**

5. The positive integer whose product with -1 is  
a. positive      b. negative      c. 0      d. none
6. The absolute value of  $|a - 4|$  if  $a$  is less than 4 is  
a.  $-(a - 4)$       b.  $a$       c. 4      d.  $a - 4$
7. Equivalent fraction of  $\frac{9}{11}$  is  
A)  $\frac{99}{88}$       B)  $\frac{234}{286}$       C)  $\frac{72}{77}$       D) none
8. If  $a > b$ ,  $-a$  will be than  $-b$   
a.  $>$       b.  $<$       c.  $=$       d. none of these
9. Which of following is correct ?  
a.  $800 + 94 = 840 + 9$       b.  $800 + 94 = 804 + 90$       c.  $800 + 94 = 80 + 94$       d.  $800 + 94 = 809 + 4$
10. The product of a fractional number and its multiplicative inverse is  
a. 0      b. 1      c. number itself      d. none

11.  $\frac{3}{4} + \frac{2}{4} =$  \_\_\_\_\_ fraction  
a. proper    b. improper    c. mixed    d. none

**(Application Based)**

12. If 9 is added to thrice of a number gives 45, then the number is \_\_\_\_\_.  
A. 12    B. 10    C. 11    D. 15
13. If  $\frac{2}{3}$  of a number is less than the original number by 20, then the number is \_\_\_\_\_.  
A. 80    B. 55    C. 50    D. 60
14. The sum of  $\frac{4}{13}, \frac{3}{13}$  and  $\frac{5}{13}$  is \_\_\_\_\_.  
a.  $\frac{12}{39}$     b.  $\frac{13}{13}$     c.  $\frac{12}{13}$     d.  $\frac{11}{13}$
15. An integer is divided by 8 giving a remainder of 4. The resulting quotient when divided by 5 gives a remainder of 3. The resulting quotient is then divided by 8 giving a quotient of 1 and a remainder of 6. What will the Final remainder be if the order of the divisors is reversed?  
a. 9    b. 7    c. 6    d. 8
16.  $\frac{2}{7}$  of a week = \_\_\_\_\_ days  
a. 7    b. 3    c. 4    d. 2

**(HOTS Based)**

17. Madhavi eats one full bar of chocolate. Then she divides another one into 5 equal parts and eats 3 of those parts. The total number of chocolates that she has eaten is  
a.  $\frac{4}{5}$     b.  $\frac{3}{5}$     c.  $\frac{8}{5}$     d.  $\frac{8}{10}$
18. In a quiz , team A scored -50,30 and 0 and team B scored 60, 30,-40 in three successive rounds. Which team scored more ?  
a. team A    b. team B    c. both teams    d. no teams
19. How many one-fourths need to be added to  $2\frac{1}{4}$  to make 4?  
a. 3    b.4    c. 5    d. 7

**20.** In a class test containing 15 questions 4 marks are given for every correct answer and (- 2) marks are given for every incorrect answers :

i) Gurpreet attempts all question but only 9 of her answers are correct. What is her total score ?

- a. 36          b.24          c.20          d.34

ii) One of her friends gets only 5 answers correct. What will be her score ?

- a.20          b. 0          c. 30          d.10