

**NEW AL WUROOD INTERNATIONAL SCHOOL, JEDDAH, K.S.A**



**Affiliated to CBSE – New Delhi, Affiliation No. 5730008**

**ANNUAL EXAMINATION (2019-2020)**

**WORKSHEET-II**

**Subject: Mathematics**

**Class: VII**

**BLOCK-19**

1. Fill in the blanks

- a) All fraction are -----.
- b) Denominator of a rational number can be any integer other than -----
- c) Multiplicative inverse of  $\frac{-7}{16}$  is -----
- d) The standard (simplest) form of  $\frac{-20}{76}$  is -----
- e) The additive inverse of  $\frac{-7}{20}$  is -----

2. True or False

- a)  $-2/3$  is a rational number.
- b)  $-20$  is a fraction
- c)  $100$  is a positive rational number.
- d) All integers are rational numbers.
- e) All decimal numbers can be represented as rational numbers.

3. Find the absolute value of  $\frac{8}{5}$ .

4. Give the  $\frac{p}{q}$  form for the following numbers:

- a) 2 out of 7
- b) 5:6

5. Represent  $\frac{1}{7}$ ,  $-\frac{2}{7}$  and  $-\frac{1}{7}$  on a number line.

6. Reduce the numbers to their standard forms:

a)  $\frac{12}{18}$

b)  $\frac{90}{-45}$

c)  $-\frac{44}{72}$

7. List three rational numbers between  $\frac{1}{3}$  and  $\frac{3}{4}$

8. Find five rational numbers between

a)  $-\frac{2}{8}$  and  $-\frac{2}{18}$

b) -1 and 0

c) -3 and -2

9. Find one equivalent rational number for  $-\frac{1}{5}$

10. Compare  $-\frac{1}{3}$  and  $-\frac{1}{4}$

11. Arrange the numbers in ascending and descending order?

$$-\frac{4}{8}, -\frac{1}{4}, \frac{3}{5}, \frac{4}{11}$$

12. Fill in the box

a)  $-\frac{4}{5}$  -----  $-\frac{5}{7}$

b)  $-\frac{7}{8}$  -----  $-\frac{14}{16}$

c)

13. Write four more rational numbers in the pattern below

$$-\frac{3}{5}, -\frac{6}{10}, -\frac{9}{15}, -\frac{12}{20}$$

14. List ten integers between 155 and -155.

## BLOCK 20

15. Add  $\frac{1}{3} + \frac{2}{3}$  using number line.
16. Find the additive inverse of  $\frac{64}{56}$
17. The sum of  $-\frac{3}{2}$  and  $\frac{1}{2}$  is -----
18. Add the following.
- a)  $\frac{-13}{14}$  and  $\frac{5}{14}$                       b)  $\frac{-13}{9}$  and  $\frac{9}{21}$
19. Subtract  $\frac{12}{18}$  from  $\frac{11}{18}$
20. Subtract  $\frac{-15}{50}$  from  $\frac{-5}{16}$
21. What should be added to  $\frac{-24}{6}$  to get  $\frac{-5}{8}$  ?
22. Solve the following
- a)  $\frac{34}{8} + -\frac{39}{18}$                                       b)  $\frac{-16}{20} - \frac{15}{19}$
23. What number should be subtracted from  $-\frac{1}{9}$  to get  $\frac{3}{9}$
24. A submarine is at  $\frac{235}{16}$  m deep from the sea level. If it moves  $\frac{235}{32}$  m up, what is the final position of if it?
25. The sum of two rational numbers is  $-\frac{3}{5}$ . if one of them is  $-\frac{9}{10}$ . Find the other ?
26. The wheat bag is  $\frac{3}{8}$  kg. If the bag weighs  $\frac{1}{4}$  kg. What is the weight of the wheat?
27. A bag full of pulses weighs  $\frac{241}{6}$  kg. if the empty drum weighs  $\frac{55}{4}$  kg. Find the weight of pulses in the bag?
28. A scuba diver located at  $\frac{3}{7}$  below the sea level. he further descends by  $\frac{14}{8}$  m. What is his new position?

## BLOCK 21

29. Multiply  $-\frac{4}{3} \times 2$  using number line.

30. The product of a rational number with its reciprocal is always-----

31. Multiply:

a)  $-\frac{8}{2} \times 12$

b)  $\frac{15}{19} \times \frac{12}{5}$

c)  $\frac{-52}{21} \times \frac{-49}{26}$

d)  $\frac{-19}{61} \times 6\frac{1}{10}$

32. The multiplicative inverse of  $-\frac{45}{11}$  is-----

33. Divide:

a)  $\frac{12}{18} \div \frac{2}{9}$

b)  $6 \div \frac{2}{3}$

c)  $-1\frac{98}{52} \div -2\frac{8}{46}$

34. A twine is 10 inch long. How many pieces can the rope be cut in to if each piece is  $\frac{2}{3}$  of an inch?

35. The cost of  $\frac{7}{2}$  m of cloth is  $\square\frac{231}{4}$ . What is the cost of one metre of cloth?

36. How many packets of capacity  $\frac{5}{6}$  liters required for filling  $\frac{245}{45}$  liters of milk?

37. When a number is divided by  $\frac{-5}{16}$ , the answer is  $\frac{-15}{32}$ . What is the number?

38. A man walk  $\frac{3}{4}$  of a km on foot at a speed of 3 km/h and  $\frac{4}{3}$  of a km on a scooter at a speed of 20 km/h. What is the total time he travelled?

39. A coffee machine dispenses coffee at  $\frac{4}{5}$  litre/hour. There are 11 people at a party and everyone has one cup of coffee and each cup has a capacity of  $\frac{2}{20}$  litres, how many hrs a coffee machine take to serve everyone?

40. Anu had  $\square 300$ . She spent  $\frac{1}{3}$  of her money on note books and  $\frac{1}{4}$  of the remainder on stationery items. How much money is left with her?