

## Class 7<sup>th</sup> Maths Test – CH 3 Rational Numbers

1. A rational number is defined as a number that can be expressed in the form  $\frac{p}{q}$ , where  $p$  and  $q$  are integers and

- (a)  $q = 0$       (b)  $q = 1$       (c)  $q \neq 1$       (d)  $q \neq 0$

2. Which of the following rational numbers is positive?

- (a)  $\frac{-8}{7}$       (b)  $\frac{19}{-13}$       (c)  $\frac{-3}{-4}$       (d)  $\frac{-21}{13}$

3. Which of the following rational numbers is negative?

- (a)  $-\left(\frac{-3}{7}\right)$       (b)  $\frac{-5}{-8}$       (c)  $\frac{9}{8}$       (d)  $\frac{3}{-7}$

4. In the standard form of a rational number, the common factor of numerator and denominator is always:

- (a) 0      (b) 1      (c) -2      (d) 2

5. Which of the following rational numbers is equal to its reciprocal?

- (a) 1      (b) 2      (c)  $\frac{1}{2}$       (d) 0

6. The reciprocal of  $\frac{1}{2}$  is

- (a) 3      (b) 2      (c) -1      (d) 0

7. The standard form of  $\frac{-48}{60}$  is

- (a)  $\frac{48}{60}$       (b)  $\frac{-60}{48}$       (c)  $\frac{-4}{5}$       (d)  $\frac{-4}{-5}$

8. Write three equivalent fraction of  $\frac{13}{9}$

- 9.** What should be subtracted from  $-3/4$  so as to get  $5/9$  ?
- 10.** Give 5 rational numbers between -4 and -3.
- 11.** The cost of  $4 \frac{1}{2}$  meters of cloth is Rs.  $85 \frac{1}{2}$  find the cost of one meter cloth.
- 12.** Simplify  $(-5/8 \times 3/7 \times 4/-15) + (4/7 \times -21/8)$
- 13.** What is the value of  $(-22)-[(-23)-(-17)-(-61)]$
- 14.** If the product of two rational numbers is  $-9/16$  and one of them is  $-4/15$ , find the other number.
- 15. Find "x"  $(13/6)$  and  $(-65/x)$**
- 16. Draw the number line and represent following rational number on it:**
- (i)  $(2/8)$  (ii)  $(5/8)$  (iii)  $(-5/8)$**