

DELHI PUBLIC SCHOOL SRINAGAR

TOPIC: RATIONAL NUMBERS

WORKSHEET: 1

Class 8th

1 Answer the following questions:

(i) Is there a rational number which is its own additive inverse? If yes, write that rational number.

(ii) What is the standard form of $\frac{22}{-55}$?

(iii) Write an equivalent rational number of $\frac{-2}{7}$ with denominator 98.

(iv) Write multiplicative inverse of $\frac{-11}{5}$.

(v) Is the commutative law of division true for rational numbers?

2. Represent the following rational numbers on number line

(a) $\frac{-7}{2}$

(b) $\frac{35}{7}$

3. Write 5 rational numbers between $\frac{1}{3}$ and $\frac{2}{3}$.4. Taking some values of a & b, show that $|a+b| \leq |a| + |b|$ 5. Arrange in ascending order $\frac{1}{2}, \frac{4}{5}, \frac{-2}{3}, \frac{-1}{2}, \frac{-5}{7}$ 6. If $a = \frac{3}{4}$, $b = \frac{-1}{2}$ and $c = \frac{1}{2}$ verify :

(i) $a+b = b+a$

(ii) $a+c = c+a$

(iii) $(a+b)+c = a+(b+c)$

7. What should be subtracted from the product of $\frac{3}{7}$ & $\frac{2}{5}$ to get $\frac{-4}{35}$?8. Simplify $\frac{11}{3} \times \frac{7}{33} \times \frac{-5}{7} \times \frac{9}{19}$.9. One coin weighs $5\frac{3}{4}$ g. Find the weight of 12 such coins.

10. Which of the following statements are True & which are false:

(i) $(a - b) \div c \neq \frac{a}{c} + (\frac{-b}{c})$

(ii) Zero is not a rational number.

(iii) $-a \div a = -1$.

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