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CBSE 8th Class Mathematics

Chapter Rational Number

CBSE TEST PAPER - 04

1. What is the quotient when a non-zero rational number is divided by its additive inverse.

a) 0 b) -1 c) 1 d) None of these

2. For any rational number a,b,c ,which among the following is false.

a) a x b=b x a b) a x (b-c)=a x b-a x c

c) a x (b ÷ c)=a x b a x c d) a x (b+c)=a x b+a x c

3. Decimal expansion of rational number is

(a) Non terminating (b) Terminating

(c) Recurring (d) both (b) and (c)

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4. 18. Decimal expansion of an irrational number is

(a) Non terminating (b) Terminating

(c) Recurring (d) neither (b) and (c)

5. Between any two distinct rational numbers there exist

(a) Finite rational numbers (b) Infinite rational numbers

(a) No rational number (d) none of the above

6. Simplify | 2 + 3(−4) |

7. Kartik reads 1/4th of a book in 1 hour. How much of the book will he read in $3\frac{1}{2}$ hours?

8. If 6/7 x {-3/13} + (3/26) -(3/13) x(8/7) = (3/26) – (m) x 2, then what is the value of m ?

[Ans. 3/13]

9. If the sum of three rational numbers is -61/15 then what is the sum of the additive inverses of the three rational numbers?

[Sum of the additive inverses = - (sum of the rational numbers) = −[−61/15] = 61/15]

10. Rearrange suitably and find the sum:

1/8 + 5/12 + 2/7 + 7/12+ 9/7 +(-5)/16

11. Find two rational and two irrational no between 2 .121121112……and 3.322322232222……

12. Express in p/q form

(a) $1.\overline{3}$ (b) $0.4\overline{3}$ (c) $1.45\overline{3}$ (d) $5.005\overline{453}$

13. Find the HCF of 9/10, 12/25, 18/35, 21/40

[Hint: HCF of Fraction= (HCF of Numerators/LCM of denominators=3/1400)

14. Is 0.5 the multiplicative inverse of $2\frac{2}{5}$? Why or Why not?

15. Write four rational numbers which are greater than - 31 and less than 4.