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# Maths worksheet for class 8 rational numbers

If you are looking for Extra questions for class 8 maths Rational Numbers, You have reached the correct page. You can also use these extra questions like Rational numbers class 8 worksheets with answers. Rational Numbers Class 8 Extra Questions Maths Chapter 1 Extra Questions for Class 8 Maths Chapter 1 Rational Numbers Rational Numbers Class 8 Extra Questions Very Short Answer Type Question 1. Pick up the rational numbers from the following numbers.  $\frac{1}{6}$ ,  $\frac{1}{7}$ ,  $\frac{1}{2}$ ,  $0$ ,  $\frac{1}{10}$ ,  $\frac{1}{0}$ ,  $\frac{1}{100}$  Solution: Since rational numbers are in the form of  $\frac{a}{b}$  where  $b \neq 0$ . Only  $\frac{1}{6}$ ,  $\frac{1}{7}$ ,  $\frac{1}{2}$  and  $0$  are the rational numbers. Question 2. Find the reciprocal of the following rational numbers: (a)  $\frac{1}{3}$  (b)  $0$  (c)  $\frac{1}{11}$  (d)  $\frac{1}{5}$  Solution: (a) Reciprocal of  $\frac{1}{3}$  is  $3$  (b) Reciprocal of  $0$ , i.e.  $\frac{1}{0}$  is not defined. (c) Reciprocal of  $\frac{1}{11}$  is  $11$  (d) Reciprocal of  $\frac{1}{5}$  is  $5$  Question 3. Write two such rational numbers whose multiplicative inverse is same as they are. Solution: Reciprocal of  $1 = \frac{1}{1} = 1$  Reciprocal of  $-1 = \frac{1}{-1} = -1$  Hence, the required rational numbers are  $-1$  and  $1$ . Question 4. What properties, the following expressions show? (i)  $\frac{1}{2} + \frac{1}{3} = \frac{1}{3} + \frac{1}{2}$  (ii)  $\frac{1}{3} \times \frac{2}{3} = \frac{2}{3} \times \frac{1}{3}$  Solution: (i)  $\frac{1}{2} + \frac{1}{3} = \frac{1}{3} + \frac{1}{2}$  shows the commutative property of addition of rational numbers. (ii)  $\frac{1}{3} \times \frac{2}{3} = \frac{2}{3} \times \frac{1}{3}$  shows the commutative property of multiplication of rational numbers. Question 5. What is the multiplicative identity of rational numbers? Solution:  $1$  is the multiplicative identity of rational numbers. Question 6. What is the additive identity of rational numbers? Solution:  $0$  is the additive identity of rational numbers. Question 7. If  $a = \frac{1}{2}$ ,  $b = \frac{1}{3}$ , verify the following: (i)  $a \times b = b \times a$  (ii)  $a + b = b + a$  Solution: Question 8. Multiply  $\frac{1}{5}$  by the reciprocal of  $\frac{1}{3}$  Solution: Question 9. Find a rational number between  $\frac{1}{2}$  and  $\frac{1}{3}$ . Solution: Rational number between  $\frac{1}{2}$  and  $\frac{1}{3}$  is  $\frac{1}{3}$ . Question 10. Write the additive inverse of the following: (a)  $\frac{1}{7}$  (b)  $\frac{1}{101}$  Solution: Question 11. Write any 5 rational numbers between  $\frac{1}{5}$  and  $\frac{1}{7}$ . (NCERT Exemplar) Solution: Question 12. Identify the rational number which is different from the other three:  $\frac{1}{2}$ ,  $\frac{1}{3}$ ,  $\frac{1}{5}$ ,  $\frac{1}{2}$ . Solution: Question 13. Calculate the following: Solution: Question 14. Represent the following rational numbers on number lines. (a)  $\frac{1}{2}$  (b)  $\frac{1}{3}$  (c)  $\frac{1}{4}$  (d)  $\frac{1}{5}$  Solution: Question 15. Find 7 rational numbers between  $\frac{1}{3}$  and  $\frac{1}{2}$ . Solution: Question 16. Show that: Solution: Question 17. If  $x = \frac{1}{2}$ ,  $y = \frac{1}{3}$  and  $z = \frac{1}{4}$ , verify that  $x \times (y \times z) = (x \times y) \times z$ . Solution: We have  $x = \frac{1}{2}$ ,  $y = \frac{1}{3}$  and  $z = \frac{1}{4}$  LHS =  $x \times (y \times z)$  Question 18. If the cost of  $4$  litres of milk is  $\text{₹}89$ , find the cost of  $1$  litre of milk. Solution: Question 19. The product of two rational numbers is  $\frac{1}{15}$ . If one of the numbers is  $\frac{1}{5}$ , find the other. Solution: Product of two rational numbers =  $\frac{1}{15}$  One number =  $\frac{1}{5}$  Other number = Product  $\div$  First number Hence, the other number =  $\frac{1}{15} \div \frac{1}{5} = \frac{1}{3}$  Question 20. Let  $O$ ,  $P$  and  $Q$  represent the numbers  $0$ ,  $3$  and  $-5$  respectively on the number line. Points  $O$ ,  $R$  and  $S$  are between  $O$  and  $P$  such that  $OQ = OR = RS = SP$ . (NCERT Exemplar) What are the rational numbers represented by the points  $O$ ,  $R$  and  $S$ . Next choose a point  $T$  between  $Z$  and  $0$  so that  $ZT = TO$ . Which rational number does  $T$  represent? Solution: As  $OQ = OR = RS = SP$  and  $OP$  therefore  $O$ ,  $R$  and  $S$  divide  $OP$  into four equal parts. Question 21. Let  $a$ ,  $b$ ,  $c$  be the three rational numbers where  $a = \frac{1}{2}$ ,  $b = \frac{1}{3}$  and  $c = \frac{1}{4}$  (NCERT Exemplar) Verify: (i)  $a + (b + c) = (a + b) + c$  (Associative property of addition) (ii)  $a \times (b \times c) = (a \times b) \times c$  (Associative property of multiplication) Solution: Rational Numbers Class 8 Extra Questions Higher Order Thinking Skills (HOTS) Question 22. Rajni had a certain amount of money in her purse. She spent  $\text{₹}10$  in the school canteen, bought a gift worth  $\text{₹}25$  and gave  $\text{₹}16$  to her friend. How much she have to begin with? Solution: Amount given to school canteen =  $\text{₹}10$  Amount given to buy gift =  $\text{₹}25$  Amount given to her friend =  $\text{₹}16$  To begin with Rajni had Question 23. One-third of a group of people are men. If the number of women is  $200$  more than the men, find the total number of people. Solution: Number of men in the group =  $1$  Difference between the number of men and women =  $200$  Hence, the total number of people =  $600$  Question 24. Fill in the blanks: (a) Numbers of rational numbers between two rational numbers is ..... Solution: (a) Countless (b)  $\frac{1}{6}$  (c)  $\frac{1}{3}$  (d)  $\frac{1}{5}$  (e) Commutative (f) associative (g) equivalent (h)  $\frac{1}{3}$  Extra Questions for Class 8 Maths NCERT Solutions for Class 8 Maths Unlimited adaptive online practice on this topic. Practice that feels like play! Get shields, trophies, certificates and scores. Master this topic as you play. CBSE, NCERT, JEE Main, NEET-UG, NDA, Exam Papers, Question Bank, NCERT Solutions, Exemplars, Revision Notes, Free Videos, MCQ Tests & more. Install Now CBSE worksheets for Rational Numbers worksheet for class 8 in PDF for free download. Maths worksheets for class 8 CBSE includes worksheets on Rational Numbers as per NCERT syllabus. CBSE class 8 worksheets as PDF for free download Rational Numbers worksheets. Users can download and print the worksheets on class 8 Mathematics Rational Numbers for free. Rational Numbers worksheet for class 8 Important Topics Introduction Properties of Rational Numbers Representation of Rational Numbers on the Number Line Rational Numbers between Two Rational Numbers Some important Facts about Rational Numbers worksheet for class 8 Rational numbers are closed under the operations of addition, subtraction and multiplication. The operations addition and multiplication are commutative for rational numbers. associative for rational numbers. The rational number  $0$  is the additive identity for rational numbers. The rational number  $1$  is the multiplicative identity for rational numbers. The idea of mean helps us to find rational numbers between two rational numbers. The reciprocal or multiplicative inverse of the rational number  $a$  is  $\frac{1}{a}$ . For all rational numbers  $a$  and  $b$ ,  $a + b = b + a$  and  $a \times b = b \times a$ . NCERT Class 8 Mathematics Solved Worksheets Chapter 1: Rational Numbers Chapter 2: Linear Equations in One Variable Chapter 3: Understanding Quadrilaterals Chapter 4: Practical Geometry Chapter 5: Data Handling Chapter 6: Squares and Square Roots Chapter 7: Cubes and Cube Roots Chapter 8: Comparing Quantities Chapter 9: Algebraic Expressions and Identities Chapter 10: Visualising Solid Shapes Chapter 11: Mensuration Chapter 12: Exponents and Powers Chapter 13: Direct and Inverse Proportions Chapter 14: Factorisation Chapter 15: Introduction to Graphs Chapter 16: Playing with Numbers CBSE Worksheets for Class 8 Mathematics in PDF Rational Numbers between Two Rational Numbers Can you tell the natural numbers between  $1$  and  $5$ ? They are  $2, 3$  and  $4$ . How many natural numbers are there between  $7$  and  $9$ ? There is one and it is  $8$ . How many natural numbers are there between  $10$  and  $11$ ? Obviously none. List the integers that lie between  $-5$  and  $4$ . They are  $-4, -3, -2, -1, 0, 1, 2, 3$ . How many integers are there between  $-1$  and  $1$ ? How many integers are there between  $-9$  and  $-10$ ? To download Printable worksheets for class 8 Mathematics and Science, do check myCBSEguide app or website. myCBSEguide provides sample papers with solution, test papers for chapter-wise practice, NCERT solutions, NCERT Exemplar solutions, quick revision notes for ready reference, CBSE guess papers and CBSE important question papers. Sample Paper all are made available through the best app for CBSE students and myCBSEguide website. Covid-19 has led the world to go through a phenomenal transition. E-learning is the future today. Stay Home, Stay Safe and keep learning!!! Practice worksheet on rational numbers is for 7th grade. 1) Represent the following rational numbers on the number line: a)  $\frac{1}{3}$  b)  $\frac{1}{6}$  c)  $-\frac{1}{2}$  d)  $\frac{3}{4}$  2) Write the following rational numbers in the standard form: a)  $\frac{5}{15}$  b)  $-\frac{24}{40}$  c)  $\frac{33}{77}$  d)  $-\frac{45}{105}$  3) Compare the following rational numbers:  $-\frac{9}{27}$ ,  $\frac{6}{18}$ ,  $-\frac{5}{7}$ ,  $\frac{10}{63}$ ,  $\frac{3}{8}$ ,  $-\frac{15}{40}$ ,  $-\frac{1}{11}$ ,  $\frac{33}{214}$  Arrange the following rational numbers in the descending order: 1)  $\frac{2}{3}$ ,  $-\frac{4}{9}$ ,  $-\frac{5}{12}$ ,  $\frac{7}{18}$ ,  $\frac{3}{4}$ ,  $-\frac{5}{12}$ ,  $-\frac{7}{16}$ ,  $\frac{9}{245}$  2)  $\frac{1}{5}$ ,  $\frac{1}{3}$ ,  $\frac{3}{4}$ ,  $\frac{1}{6}$ ,  $\frac{2}{5}$ ,  $\frac{7}{8}$ ,  $\frac{11}{12}$ ,  $\frac{3}{106}$  Fill in the blanks by the correct symbol  $>$ ,  $=$  or  $<$ : 1)  $\frac{3}{4} > \frac{1}{2}$  2)  $-\frac{1}{2} < -\frac{3}{4}$  3)  $\frac{1}{7} > \frac{1}{11}$  4)  $-\frac{1}{11} > \frac{3}{214}$  and  $\frac{7}{93}$  5)  $\frac{5}{9} > \frac{6}{158}$  Simplify: 1)  $-2 + (\frac{3}{8}) - (-\frac{1}{5})$  2)  $(\frac{2}{3}) + (-\frac{7}{11}) + (-\frac{1}{4})$  3) Verify that  $a + b = b + a$  by taking 1)  $a = -\frac{7}{5}$ ,  $b = \frac{2}{7}$  2)  $a = -1$ ,  $b = -\frac{2}{310}$  Verify that  $(a+b)+c = a+(b+c)$  by taking 1)  $a = -2$ ,  $b = -\frac{2}{3}$ ,  $c = -\frac{3}{4}$  2)  $a = -12$ ,  $b = -\frac{9}{11}$ ,  $c = \frac{7}{121}$  3) Simplify the following: 1)  $(\frac{2}{3}) + (-\frac{4}{5}) + 1 + (-\frac{2}{3}) + (-\frac{11}{52})$  2)  $(\frac{5}{8}) + (-\frac{9}{9}) + 0 + (-\frac{13}{3}) + (\frac{17}{24})$  3) Subtract: 1)  $(-\frac{3}{4})$  from  $(\frac{1}{2})$  2)  $(\frac{5}{8})$  from  $(-\frac{3}{14})$  3) What should be added to  $(-\frac{7}{20})$  to get  $(-\frac{2}{5})$ ? 4) The sum of two rational numbers is  $(-\frac{3}{7})$ . If one of the number is  $(-\frac{5}{8})$ , find the other. 5) The sum of two rational numbers is  $(-\frac{5}{8})$ . If one of the number is  $(-\frac{6}{11})$ , find the other number. 6) To which number should  $(\frac{2}{3})$  be added to give  $(-\frac{11}{4})$ ? 7) From which number should  $(-\frac{11}{4})$  be subtracted to give  $(-\frac{11}{4})$ ? 8) Find the product of  $(-\frac{1}{5})$ ,  $(-\frac{2}{5})$ ,  $(-\frac{3}{15})$  9) Multiply, and give the product in the standard form: 1)  $\frac{6}{25}$  by  $\frac{50}{24}$  2)  $\frac{3}{11}$  by  $\frac{223}{215}$  by  $-\frac{15}{21}$  4)  $-36$  by  $-\frac{5}{920}$  Verify the property  $a \times b = b \times a$  by taking: 1)  $a = (-\frac{12}{7})$ ,  $b = (-\frac{2}{5})$  2)  $a = 0$ ,  $b = (-\frac{13}{321})$  Verify the property  $a \times (b \times c) = (a \times b) \times c$  by taking 1)  $a = (\frac{7}{5})$ ,  $b = (-\frac{9}{4})$ ,  $c = (\frac{1}{2})$  2)  $a = 1$ ,  $b = (-\frac{13}{5})$ ,  $c = (\frac{3}{5})$  2) Verify the property  $ax(b+c) = (axb)+(axc)$  by taking: 1)  $a = (\frac{1}{3})$ ,  $b = 0$ ,  $c = (-\frac{7}{6})$  2)  $a = -2$ ,  $b = (\frac{9}{5})$ ,  $c = (-\frac{2}{15})$  3) Verify  $(x \times y) \times 1 = x \times (y \times 1)$   $x = \frac{1}{2}$ ,  $y = \frac{1}{3}$  2)  $x = -\frac{3}{4}$ ,  $y = -\frac{1}{824}$  Verify that  $|x + y| \leq |x| + |y|$  by taking  $x = \frac{13}{4}$  and  $y = \frac{3}{225}$  Verify that  $|x + y| = |x| + |y|$  by taking  $x = \frac{1}{2}$  and  $y = -\frac{1}{426}$  The product of two rational numbers is  $6$ . If one of them is  $8$ , find the other number. 27) By what number should  $(-\frac{6}{11})$  be multiplied to get  $(-\frac{32}{11})$ ? 28) Find the rational number between: 1)  $3$  and  $2$  2)  $-7$  and  $-629$  Find three rational numbers between: 1)  $-5$  and  $8$  2)  $(-\frac{1}{3})$  and  $(\frac{1}{2})$  30) State whether true or false: (practice worksheet on rational numbers) 1) Absolute value of a rational number is either positive or  $0$  2) There are countless rational numbers with absolute value less than  $5.3$  3) The absolute value of  $0$  is  $0$ . Do this worksheet and for correction Contact Us Practice Worksheet on Rational Numbers From Practice Worksheet on Rational Numbers to Worksheets Home Page Covid-19 has affected physical interactions between people. Don't let it affect your learning. Page 2 Welcome to 12 grade math!!!! 11th grade math is a foundation for 12th grade math. Some of the topics which you have studied in 11th grade the same topics are repeated in 12th grade-math but in details. ask-math describes the what the student are going to learn in this grade. Some topic introduction and to learn these topics step by step, there are links given at the bottom. Relations : ask-math has already introduces this topic in 11th grade math. Now in the 12th grade, ask-math teaches you about the Cartesian products of the sets, different types of relations. Functions: In this chapter ask-math explains you about various types of functions, composition of functions and inverse of a function. Inverse trigonometric functions: In this chapter, you will learn the inverses of all trigonometric functions and to study their properties. Algebra of matrices: In this section you will learn the operations on matrices such as addition, subtraction and multiplication of matrices. Determinants Every square matrix can be associated to an expression or a number which is known as its determinant. Continuity : Continuous function is a function for which sufficiently small changes in the input result in random small changes in the output if not then the function is said to be a discontinuous function. Differentiability : Let  $f(x)$  be a real valued function whose derivative exists at each point in its domain. Mean value theorems : Let  $f$  be a real valued function defined on the interval  $[a,b]$  such that the function is continuous on  $[a,b]$ , differentiable on  $(a,b)$  and  $f(a) = f(b)$ . Tangents and Normals : In this section you will learn how to find the gradient of the curve. Application of derivatives: In this section you will learn Increasing and decreasing functions and Maxima and Minima. Integrals : Under this section, you will learn indefinite and definite integrals. Application of integrals: Here you will learn how to find the area under the simple curve and area between the two curves. • Relations Cartesian product of sets Domain Relation Void relation Universal relation Identity relation Reflexive relation on set Symmetric relations Transitive relation Equivalence relation • Limits and continuity Introduction to Limits Finding limits numerically finding limits graphically Limits that fail to exist Formal definition of Limits Properties of Limits Evaluate the limit by direct substitution Limits of trigonometric functions Finding limits by factorization method Finding limits by rationalizing method Calculus Squeeze theorem Continuity of a function Greatest integer function Intermediate Value theorem Infinite Limits • Differentiation Implicit differentiation Derivative of exponential function Differentiation of logarithmic function Derivative of bases other than  $e$  Derivatives of inverse trigonometric functions Finding Related rates Extreme value theorem Relative minimum and maximum Critical points Rolle's Theorem Mean Value Theorem Increasing and Decreasing functions Second Order Derivatives Concavity of function Point of inflection Limits at Infinity Analyzing Graph of function Introduction to Optimization Optimization Problems Newton's method for approximating function Tangent line approximation Differentials Antiderivatives Indefinite Integral Power rule of Integration Properties of Integration Integration of trigonometric functions Integration by U-substitution Integration of Logarithmic function Integration by parts 12th grade math Home Covid-19 has led the world to go through a phenomenal transition. 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