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Name : _____   Score : _____
Teacher : _____   Date : _____

Solving Rational Expressions

Solve each equation.

1) $\dfrac{1}{c^2} = \dfrac{1}{4}$

2) $\dfrac{1}{x^2} = \dfrac{1}{9}$

3) $\dfrac{1}{h^2} = \dfrac{1}{4}$

4) $\dfrac{s-7}{4s^2} + \dfrac{8}{2s^2} = \dfrac{s+5}{2s^2}$

5) $\dfrac{1}{24p^2} = \dfrac{1}{12p^2} + \dfrac{1}{p}$

6) $\dfrac{1}{16r^2} = \dfrac{1}{8r^2} + \dfrac{1}{r}$

7) $\dfrac{1}{b} = \dfrac{4}{2b} - 10$

8) $\dfrac{1}{18k^2} = \dfrac{1}{9k^2} + \dfrac{1}{k}$

9) $\dfrac{z+3}{16z^2} + \dfrac{2}{8z^2} = \dfrac{z+6}{8z^2}$

10) $\dfrac{1}{g} + \dfrac{9g+12}{g^2 - 10g} = \dfrac{6g-12}{g^2 - 10g}$

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Connect Four!

Add & Subtract Rational Numbers: Playing Cards

$2\frac{1}{5} + 1\frac{3}{4}$	$\frac{1}{13} + \frac{6}{11}$
$5\frac{2}{3} + -2\frac{4}{5}$	$\frac{8}{9} + -\frac{6}{7}$
$-3\frac{2}{7} + \frac{3}{4}$	$-\frac{7}{9} + \frac{10}{11}$
$-1\frac{1}{8} + \frac{1}{6}$	$-\frac{11}{14} + \frac{5}{6}$

RATIONAL NUMBERS

Learners' Planet

WORKSHEET-1

Simplify:

1) $\frac{1}{2} \times \frac{3}{2}$
   A) $\frac{43}{20}$ B) $\frac{3}{4}$
   C) $\frac{11}{4}$ D) 2

2) $\frac{3}{2} \times \frac{5}{3}$
   A) $\frac{7}{4}$ B) $\frac{5}{2}$
   C) $\frac{19}{6}$ D) 2

3) $\frac{7}{6} \times \frac{8}{5}$
   A) $\frac{101}{30}$ B) $\frac{83}{30}$
   C) $\frac{28}{15}$ D) $\frac{46}{15}$

4) $\frac{1}{2} \times \frac{1}{3}$
   A) $\frac{5}{6}$ B) $\frac{41}{30}$
   C) $\frac{1}{6}$ D) $\frac{13}{6}$

5) $\frac{1}{3} \times \frac{1}{2}$
   A) $\frac{5}{12}$ B) $\frac{1}{6}$
   C) $\frac{11}{6}$ D) $\frac{4}{3}$

6) $\frac{3}{5} \times \frac{5}{4}$
   A) $\frac{37}{20}$ B) $\frac{11}{4}$
   C) $\frac{3}{4}$ D) $\frac{19}{20}$

7) $\frac{5}{3} \times \frac{4}{3}$
   A) $\frac{20}{9}$ B) 3
   C) $\frac{3}{10}$ D) $\frac{32}{9}$

8) $5 \times \frac{1}{3}$
   A) $\frac{11}{3}$ B) $\frac{5}{3}$
   C) $\frac{13}{6}$ D) $\frac{10}{3}$

9) $4 \times \frac{5}{4}$
   A) $\frac{9}{2}$ B) 7
   C) 5   D) 3

10) $2 \times \frac{3}{2}$
    A) $\frac{7}{2}$ B) $\frac{3}{2}$
    C) 3   D) $\frac{7}{6}$

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NCERT Solution For Class 8 Maths Chapter 1- Rational Numbers

Exercise 1.1   Page: 14

1. Using appropriate properties find.

(i) $-\frac{2}{3} \times \frac{3}{5} + \frac{5}{2} - \frac{3}{5} \times \frac{1}{6}$

Solution:

$-\frac{2}{3} \times \frac{3}{5} + \frac{5}{2} - \frac{3}{5} \times \frac{1}{6}$

$= -\frac{2}{3} \times \frac{3}{5} - \frac{3}{5} \times \frac{1}{6} + \frac{5}{2}$ (by commutativity)

$= \frac{3}{5}\left(-\frac{2}{3} - \frac{1}{6}\right) + \frac{5}{2}$

$= \frac{3}{5}\left(\frac{-4-1}{6}\right) + \frac{5}{2}$

$= \frac{3}{5}\left(\frac{-5}{6}\right) + \frac{5}{2}$ (by distributivity)

$= \frac{-15}{30} + \frac{5}{2}$

$= \frac{-1}{2} + \frac{5}{2}$

$= \frac{4}{2}$

$= 2$

(ii) $\frac{2}{5} \times \left(-\frac{3}{7}\right) - \frac{1}{6} \times \frac{3}{2} + \frac{1}{14} \times \frac{2}{5}$

Solution:

$\frac{2}{5} \times \left(-\frac{3}{7}\right) - \frac{1}{6} \times \frac{3}{2} + \frac{1}{14} \times \frac{2}{5}$

$= \frac{2}{5} \times \left(-\frac{3}{7}\right) + \frac{1}{14} \times \frac{2}{5} - \frac{1}{6} \times \frac{3}{2}$

$= \frac{2}{5} \times \left(-\frac{3}{7}\right) + \frac{1}{14} \times \frac{2}{5} - \left(\frac{1}{6} \times \frac{3}{2}\right)$ (by commutativity)

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Student Name: _____   Score: _____

Simplify the Radicals

$2\sqrt{3} + 2\sqrt{3} - 3\sqrt{3} =$ _____

$7\sqrt{2} + 5\sqrt{2} - 6\sqrt{2} =$ _____

$8\sqrt{17} - \sqrt{17} + 6\sqrt{17} =$ _____

$11\sqrt{3} - 2\sqrt{11} + 5\sqrt{11} =$ _____

$5\sqrt{5} + 4\sqrt{5} - 3\sqrt{5} =$ _____

$8\sqrt{2} + 4\sqrt{2} - 3\sqrt{2} =$ _____

$9\sqrt{11} - 8\sqrt{11} + \sqrt{11} =$ _____

$5\sqrt{3} - 5\sqrt{3} + 4\sqrt{2} =$ _____

$6\sqrt{5} - 2\sqrt{3} + 2\sqrt{5} =$ _____

Maths worksheets for grade 8 rational numbers. 8th grade maths worksheets for class 8 rational numbers.

9. They are far more likely to be enthusiastic about a task they gave themselves. The number which is subtracted from to get is ¢ÃÂ¦Ã¢ÃÂ¦Ã¢ÃÂ¦Ã¢ÃÂ¦Ã¢ÃÂ¦Ã. Class 8 Maths Rational Number Short Answer Type Questions 1. Whether you¢ÃÂÂre a parent helping your child at home or a teacher in the classroom, tackling the process with the right teaching methods can make a huge difference. In short, that means some problems can be solved in more than one way. @mathematicsprof/Twitter MORE FROM QUESTIONSANSWERED.NET If you¢ÃÂÂre not sure where to start, take a look at these time-tested ways to help students with math. The product of two rational number is always a ¢ÃÂ¦Ã¢ÃÂ¦Ã¢ÃÂ¦Ã¢ÃÂ¦Ã. Season tickets usually cost ¢ÃÂÂ¹Ã 120 per person. ¢ÃÂ¦Ã¢ÃÂ¦Ã¢ÃÂ¦Ã¢ÃÂ¦Ã¢ÃÂÂ¹Ã is the multiplicative identity for rational numbers. 3. With a positive approach, you might be surprised to see how much progress your child starts to make. How much will 6 tickets will cost for students? (a) 3 (b) 9 (c) 8 (d) none of these 13. 10. Rewrite the rational number in the simplest form (a) (b) (c) (d) none of these 19. The rational number ¢ÃÂ¦Ã¢ÃÂ¦Ã¢ÃÂ¦Ã¢ÃÂ¦Ã¢ÃÂ¦Ã is equal to its negative. Which number lies between and ? However, teachers and parents who homeschool follow a curriculum. Rewrite the rational number in the simplest form. A tailor needs a metre of cloth to stitch a blouse. What number should be added to to get ? The value of x for which the two rational numbers , are equivalent. (a) 1 (b) 0 (c) -1 (d) 3. They feel that way because they done¢ÃÂÂt understand all the ways math relates to daily life in the real world ¢ÃÂÂ so show them! Applying equations, formulas and geometry to common tasks they can see and participate in helps students understand just how important math is in our lives. The numbers ¢ÃÂ¦Ã¢ÃÂ¦Ã¢ÃÂ¦Ã¢ÃÂ¦Ã¢ÃÂ¦Ã¢ÃÂ¦Ã.. It he wants to stitch 100 blouses how much cloth will be needed? Done¢ÃÂÂt forget to include plenty of time for questions and allow them time to truly The concepts before moving on to the next topic. While it is true that some students understand mathematics concepts more quickly than others, everyone can learn mathematics with the correct techniques and tools. 7. The reverse additive of ES: (a) 1 (b) 0 (c) Ã ¢ â, ¬ "(d) 5. Giving students Alone control over how they learn allows them to adapt and incorporate their strengths, and also n transmits your belief. In your ability. 6. @ Mathcoachcorner / Twitter In addition, letting your guide curiosity gives you the opportunity to discover your own passions for the particular topics that you can enjoy. Reward your student While going with simple but great treats, such as configuring a game of mathematics to play on a computer or mobile device instead of a regular study session. Class 8 Mathematics Rational Rational Number Very short Response type 1 a) - (b) (b) (c) (c) (d) 6. Simplify: 2. The rational number is equal to: (a) 0.75 (b) 0.12 (c) 0.012 (d) 0.075 9. @ MathCoachcorner / Twitter Apply mathematics to real-world scenarios When talking with students, it is clear that one of the key problems with mathematics For many of them, it seems too abstract for them. (a) (b) (c) (d) 8. A rational number between and ES (a) (b) (c) (d) 10. Find X such that and are equivalent rational numbers. Reciprocal, where x "x is Ã ¢ â, ¬ ... ... Ã ¢ Ã ¢ ... ... how much will 1 cost KG of wheat? How much money does it have to salma in your bank account? They are their own reciprocos. Find X such that = 2 (a) 24 (B) -12 (c) -24 (d) none of these 12. . @ MathCoachcorner / Twitter collaborates with teachers and parents, whether you are a teacher or a parent, it is always a good idea to collaborate between so will it keep it on the way and will help you overcome obstacles quickly . Fill in the boxes with the correct symbol: (a)> (b) = (d) None of these 16. @ MathematicsProf / Twitter Plan in advance For most parents, students bring specific articles for the home as the task, and they simply need to be being srebmuN stnemmgissA htaM ezilanosreP rettiwT / renroChcaoChtaM @? 2- teg ot Ã Ã Ã ¢ morf detcartbus eb dluohs rebmun tahW .seceip ruof otni ti gnidivid susrev seceip 01 otni gnihtemos gnidivid neewteb secnereffid eht erolpxe meht tel dna Ã Ã Ã ¢ seikooc egral ebyam ekil Ã Ã Ã ¢ smeti efil-laer emos ecudortni, mottob no rebmun rellams a htiw noitcarf a naht rellams eb dluoc mottob no rebmun regral a htiw dnatsrednu ot gnilgguurts era stneduts fi, elpmaxe roF. Ã]â € ¢ ¢ ¢ â € ¢ â]â € ¢ ¢ ¢ ¢ Ã ¢ Ã ¢ â]â € ¢ ¢ Ã ¢ Ã ¢ Ã ¢ Ã ¢ â - fo lacorpicer eht? fo esrevni evitidda eht si tahW .1 snoitseuQ epyT rewsnA gnoL rebmuN lanoitaR shtaM 8 ssalC .cimim ot ylekil si dlihc ruoy taht edutitta evitagen a sserpxe tÃ Ã Ã ¢ nod dna evitisop yats, lla evobA .1 sknalB ehT nI lliF rebmuN lanoitaR Shtam 8 SSALC ESEHT FO ENON) D () C () B () A (: NRETTAP EHT NI REBMUN LANOITAR TXEN ETIRW. FO Lacorpicer EHT DNA FO TCUDOR EHT DNIF .HCUM OS TON SREHTO â € Ã ¢ HTAM EVOL STNEDUTS emoS rettiwT / forpscitamehtam @ shtaM 8 ssalC rof steehskroW .seihport ro sladem fo mrof eht ni semoc netfo siht, dlrow strops eht nI .deeccus dna nrael dlihc ruoy gnipleh ot pets tsrif latnemadnuf taht ekat uoy erusne ot Ã Ã Ã ¢ stpecnoc htam gninnigeb secrofnier taht emag nuf a htiw spahrep Ã Ã Ã ¢ testuo eht morf ecnedifnoc dliub ot kroW .stpecnoc gnignellahc ro wen htiw meht gnipleh erÃ Ã Ã ¢ uoy nehw yllaicepse, semit lla ta snoitseuq dna ytisoiruc egaruocne ot erus eB. REBMUN LANOITAR Ã]â € ¢ ¢ â]â € ¢ ¢ Ã ¢ Ã ¢ Ã ¢ Ã ¢ Ã ¢ Ã ¢ si rebmun Lanoitar Evitagen a fo lacorpicer eht .Ã]Ã € Ã ¢ Ã]Ã ¢ ¢ € Ã ¢ Ã ¢ Ã ¢ Ã ¢ Ã ¢ Ã ¢ si 3 fo esrevni Evitacilpitlum Dna Esrevni Evitidda eht fo eht. 11 Esht fo Enon) D (51-) C (51-) b (5-) a (Taht HCUS X DNIF .ti HTIW MEHT GNIPLEH DNA HTAM TUOY TAHW TUBA TNALIGIV EB OT LACITIRC SÃ ™ â € Ã ¢ ti .liated ni meht fo lla Revoc UOY ERUS EKAM OT GNINNALP ECNAVDA EMOS SEKAT TI DNA, SMAXE RIEHT ROF WONK OT LATIV SÃ ™ â € ¢ Ti, ESAC EHT SÃ ™ â € ¢ Taht Nehw .nevig erÃ € € ¢ yeht tahw htiw pleh ot Work in very interesting ways. What is the multiplicative inverse of? (a) - (b) - (c) (d) (d) 7. That causes mathematics to be important for more than a grade card. The cost of 3 kg of wheat is "" write the following rational number in the pattern: (a) (b) (c) (d) none of these 20. For example, instead of giving them an exercise or the worksheet To complete, you could prepare several different exercises and let them choose what they want to do. As a result, some may try to get away just to kill a passing rating. and ... ... lifts the bar well, each student will not fall in love with the mathematics, even after you build your trust and show them that you can learn . that. (a) entire numbers (B) Intermediate numbers (D) Natural numbers (d) None of these 2. 1. The reciprocus of a positive rational number is: | ... ... They will enjoy it much more than a certificate or an insignia. Do not let them do it! Instead, raise the bar with older challenges to send a powerful signal that is always expected to do as best they can do the best. Rec. Curiosity, but curiosity is a valuable tool even for basic concepts. @ Mathcoachcorner / Twitter Reward progress does not matter in what the subject is working with your son or student, it is important to reward progress. The associative property is not followed in Ã â € ¢ ... ... zero has Ã ¢ Ã ¢ ... ... Reciprocal. That could work in a story class, but for mathematics, it is essential to really understand the mathematical concepts to achieve long-term success. (a) 1 (b) 0 (c) -1 (d) 4. @ memesxmoney / twitter prioritizes comprehension, saicneregus saicneregus y soiratnemoc ed opit odot nebrosba y ,sajnopse sal omoc nos so±Ãin sol ed sorberec soL sovitisop naeS rettiwT / forPscitamehtaM @ .senem¡Ãxe sol ed n³Ãicaziromem ed n³Ãicamrofni al ne sisafn©Ã ohcum ecah es secev a ,ocim©Ãdaca odnum le ne n³Ãicaziromem al Adults - Both positive and negative. (a) (b) (c) (d) (d) none of these 18. If it does not encourage comprehension on memorization from the beginning, students could be in trembling foundations as mathematics become progressively mÃ It's difficult. The reverse additive of is Ã â, ¬ ... ... Ã ¢ â, ¬ ... ... even if you start to feel frustrated, do A short break to relax and then request guidance from online sources or another person to help you solve it. What about the rational numbers is the highest? Do not stop giving them rewards for their hard work! They should not have to wait until they achieve big things like those of the grading cards and the pending test scores. Teachers must keep parents informed about exactly what they had been doing in class, while parents, who are generally those who asked them to help you at home with one more seme base, should seek orientation of the Teachers and inform them of any problematic area that are particularly challenging. Organize the number, and in the ascending order. The equivalent rational number of (A) (B) (c) (d) None of these 15. Constructs confidence Some students who struggle to understand certain concepts of mathematics are discouraged and begin to believe that mathematics simply are not For Them because they are not good at that. 8. For students, they have a normal cost price. 5. Ã ¢ Ã ¢ ... ... is the identity for the addition of rational numbers. Fill in the boxes with the correct symbol: (a)> (b)

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