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Fractions worksheets gcse

FreeFreeReport ProblemIt is a resource designed for UK teachers. See the U.S. version. Adding news, subtraction, multiplying, searching for equivalents, converting to decimal signs or interest? Whatever you do with the factions, these activities and the sheets you covered... Added: May 29, 2019 UNDERSTANDING FRACTIONS 3, quarter and smaller non-unit factions EQUIVALENT FRACTIONS Understanding of equivalent factions 'Simplification' factions by dividing 'Unsimplifying' factions by multiplying Sort and compare fractions OF FRACTION ARITHMETIC Adding and subtraction Multiplying Division Multi-stage calculations Missing Problems Number Of Formulated Faction Problems are used normally in everyday life, such as the sale price of 1/3 of the knowledge of the To simplify the faction, we divide the numerator (top of the faction) and denominator (at the bottom of the faction) by the same amount until we can simplify more. Note: The simplification of factions does not change the meaning of the faction example: Write dfrac{12}{30} in its simplest form. textcolorred{12} and textcolorred {30} contain 6 as a factor, which means that we can divide both into 6. dfrac{12}{30} (dfrac)12,div630div6 are both simple numbers{2}{5}, so you can no longer simplify. Mixed factions are numbers with a more integrative part and a share part, such as 6 dfrac{1}{4}. Wrong factions are factions where the numerator (above) has more denominator (below), such as dfrac{9}{2}. We also call these top-heavy factions for this reason. We need to be able to convert between these two types. Example: Write 3'dfrac{3}{4} as the wrong faction. 3 dfrac{3}{4} 3 dfrac{3}{4} dfrac{12}{4} dfrac{3}{4} textcolorblackdfrac{15}{4} When adding factions you have to make sure that you have a common denominator. Then we'll add two factions together, adding a numerator together. Example: Solve dfrac{3}{5} dfrac{1}{4} dfrac{3}{5}dfrac 3times 4'5'times 4'dfrac{12}{20} dfrac{1}{4}dfrac1'1'times54'times 5'dfrac{5}{20} Now to add two factions with the same banner, just add the number together. By doing this, we get dfrac{3}{5} dfrac{1}{4}dfrac{12}{20} dfrac{5}{20} textcolorblackdfrac{17}{20} When subtracting factions you need to make sure that you have a common denominator. We then subtract one faction from another, subtracting one numerator from another. Example: Solve dfrac{4}{5} - dfrac{1}{2} dfrac{4}{5}dfrac4'times25'times 2'dfrac{8}{10} dfrac{1}{2}dfrac 1times 5'2'times 5'dfrac{5}{10} Now, subtract two factions with the same denominator, just subtract the second numerator from the first. By doing this, we get dfrac{4}{5} - dfrac{1}{2}dfrac{8}{10} - dfrac{5}{10} (textcolor)black{3}{10} dfrac{3}{10} Multiply factions, we just multiply the numerator together and denominators together. Example: dfrac{1}{5} time dfrac{2}{3} dfrac 1times2 5'times 3 textcolorblackdfrac{2}{15} For dividing factions, remember the rule: Hold, Change, Flip. This means that you have to keep the first faction as it is, change the dividing sign into multiplication, and flip the second faction. Then you just develop multiplication as usual. Example: Develop Drq{1}{2} Div zdfraq{5}{9}. Write your answer in its simplest form. We keep the first faction the same, change the symbol to multiply and turn the second faction. dfrac{1}{2} divdfrac{5}{9} textcolororangedfrac{1}{2} textcolorredtimes (textcolor)blue dfrac{9}{5} Now, by multiplying, we get dfrac{1}{2} dfrac time{9}{5} dfrac 1 once 92 time 5 textcolor blackdfrac{9}{10} When making calculations involving mixed factions, it is easier to convert them into wrong factions in the first place. We then do the calculation using the above skills. Example: Calculate textcolorred2 dfrac{1}{4} textcolorblue3 dfrac{1}{2}. textcolor-red 2 dfrac{1}{4} dfrac{9}{4}, and , textcolor3 dfrac{1}{2} dfrac{7}{2} then 2 dfrac{1}{4} once 3 dfrac{1}{2} dfrac{9}{4} once dfrac{7}{2} dfrac9 times 7 44 times 2 textcolor black{63}{8} we can not simplify it further, so our answer in its simplest form. To make up a portion of the sum, such as money, we divide the amount into a denominator (bottom) and then multiply it by the numerator (above) or vice versa Example: Calculate dfractextcolor-limegreen{3}textcolor-red {5} from textcolorblue$170. Divide textcolorblue$170 into textcolorred {5} first, and then multiply by textcolorlimegreen{3}: startdfrac{3}{5} text blue 170 U.S. dollars (diva textcolor red) {5}) textcolor limegreen {3} $34 time 3 dfrac we multiply by the number (above) and multiply by the denominator (below), dfrac{6}{13} timedfrac{4}{3} dfrac 6 times 4 3 times 13 dfrac 3 dfrac{24}{39}. , the answer is simplified before, dr{24}{39} and Dfrak{8}{13} To subtract the factions, they must first have a common denominator. This can be achieved by first multiplying the top and bottom of the first faction by 3 and then multiplying the top and bottom of the second fraction by 10. Thus, Dfraq{7}{10} - Dfrak{8}{3} - Dfraq{21}{30} - Dfraq{80}{30} - Dfrac{59}{30} To divide the factions, we must save, change, and flip. Changing the multiplication mark, and flipping through the second faction we receive{9}{11} dfrac, div dfrac{6}{7} dfrac{9}{11} oncedfrac{7}{6} dfrac{9}{11} timesdfrac{7}{6} 9 once 7 11 times 6 dfrac{63}{66} both upper and lower have factor 3, which we can cancel, leaving us with Dfrac{21}{22} when multiplying factions, we multiply through the numerator (above) and multiply through the denominator (below), dfrac{5}{4} times dfrac{2}{3} dfrac 5 times 2 4 times 3 dfrac{10}{12} Definition of common factor 2, the answer is simplified before, dfrac{10}{12} dfrac{5}{6} to divide the factions we must save, change, and flip. First we have to convert the mixed faction into the wrong faction, the 12-dfrac{1}{2} th dfrac{25}{2} then change the division sign to multiply, and turning over the second faction we get{25}{2} dfrac, divdfrac{5}{8} dfrac{25}{2} oncedfrac{8}{5} dfrac 25 times 82 once 5 dfrac{200}{10} 20 Try to revise the map on this subject. 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