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Adding and subtracting fractions word problems 7th grade

Example 1: Rachel rode her bike for one-fifth of a mile on Monday and two-fifths of a mile on Tuesday. How many miles did she ride altogether? Analysis: To solve this problem, we will add two fractions with like denominators. Solution: Answer: Rachel rode her bike for three-fifths of a mile altogether. Example 2: Stefanie swam four-fifths of a lap in the morning and seven-fifteenths of a lap in the evening. How much farther did Stefanie swim in the morning than in the evening? Analysis: To solve this problem, we will subtract two fractions with unlike denominators. Solution: Answer: Stefanie swam one-third of a lap farther in the morning. Example 3: It took Nick five-thirds of an hour to complete his math homework on Monday, three-fourths of an hour on Tuesday, and five-sixths of an hour on Wednesday. How many hours did he take to complete his homework altogether? Analysis: To solve this problem, we will add three fractions with unlike denominators. Note that the first is an improper fraction. Solution: Answer: It took Nick three and one-fourth hours to complete his homework altogether. Example 4: Dina added five-sixths of a bag of soil to her garden. Her neighbor Natasha added eleven-eighths bags of soil to her garden. How much more soil did Natasha add than Dina? Analysis: To solve this problem, we will subtract two fractions with unlike denominators. Solution: Answer: Example 5: At a pizza party, Diego and his friends ate three and one-fourth cheese pizzas and two and three-fourths pepperoni pizzas. How much pizza did they eat in all? Analysis: To solve this problem, we will add two mixed numbers, with the fractional parts having like denominators. Solution: Answer: Diego and his friends ate six pizzas in all. Example 6: The Cocozzelli family drove their car for five and five-sixths days to reach their vacation home, and then drove for six and one-sixth days to return home. How much longer did it take them to drive home? Analysis: To solve this problem, we will subtract two mixed numbers, with the fractional parts having like denominators. Solution: Answer: The Cocozzelli family took one-half more days to drive home. Example 7: A warehouse has 12 and nine-tenths meters of tape in one area of the building, and eight and three-fifths meters of tape in another part. How much tape does the warehouse have in all? Analysis: To solve this problem, we will add two mixed numbers, with the fractional parts having unlike denominators. Solution: Answer: The warehouse has 21 and one-half meters of tape in all. Example 8: An electrician has three and seven-sixteenths cm of wire. He needs only two and five-eighths cm of wire for a job. How much wire does he need to cut? Analysis: To solve this problem, we will subtract two mixed numbers, with the fractional parts having unlike denominators. Solution: Answer: The electrician needs to cut 13 sixteenths cm of wire. Example 9: A carpenter had a piece of wood that was 15 feet in length. If he needs only 10 and five-twelfths feet of wood, then how much wood should he cut? Analysis: To solve this problem, we will subtract a mixed number from a whole number. Solution: Answer: The carpenter needs to cut four and seven-twelfths feet of wood. Summary: In this lesson we learned how to solve word problems involving addition and subtraction of fractions and mixed numbers. We used the following skills to solve these problems: Add fractions with like denominators. Subtract fractions with like denominators. Add mixed numbers with like denominators. Subtract mixed numbers with unlike denominators. Add fractions with unlike denominators. Subtract fractions with unlike denominators. Add mixed numbers with like denominators. Subtract mixed numbers with like denominators. Add mixed numbers with unlike denominators. Subtract mixed numbers with unlike denominators. Exercises Directions: Subtract the mixed numbers in each exercise below. Be sure to simplify your result, if necessary. Click once in an ANSWER BOX and type in your answer; then click ENTER. After you click ENTER, a message will appear in the RESULTS BOX to indicate whether your answer is correct or incorrect. To start over, click CLEAR. Note: To write the fraction three-fourths, enter 3/4 into the form. To write the mixed number four and two-thirds, enter 4, a space, and then 2/3 into the form. 1. A recipe needs 3/4 teaspoon black pepper and 1/4 red pepper. How much more black pepper is needed than red pepper for this recipe? 2. One evening, a restaurant served a total of 1/2 of a loaf of wheat bread and 7/8 of a loaf of white bread. How many loaves were served in all? 3. Robin and Kelly own neighboring cornfields. Robin harvested 4 and 3/10 acres of corn on Monday and Kelly harvested 2 and 1/10 acres. How many more acres did Robin harvest than Kelly? 4. Juanita needed 3 and 2/3 hours to take a standardized test, and Jordan needed 5 and 1/4 hours. How much more time did Jordan need than Juanita to take the test? 5. An airline agent checked in 10 and 1/3 kg of baggage for one passenger and another 8 and 5/6 kg of baggage for his travel companion. How many kilograms of luggage did the agent check in all? Recall the topic carefully and practice the questions given in the math worksheet on add and subtract fractions. The question mainly covers addition with the help of a fraction number line, subtraction with the help of a fraction number line, add the fractions with the same denominator, subtract the fractions with the same denominator and word problems on add and subtract fractions. 1. Add with the help of a fraction number line:(a) $\frac{2}{5}$ + $\frac{1}{5}$(b) $\frac{3}{7}$ + $\frac{2}{7}$(c) $\frac{6}{10}$ + $\frac{1}{10}$ 2. Subtract with the help of a fraction number line: (a) $\frac{9}{10}$ - $\frac{3}{10}$(b) $\frac{5}{6}$ - $\frac{2}{6}$(c) $\frac{7}{8}$ - $\frac{4}{8}$3. Add: (a) $\frac{7}{10}$ + $\frac{2}{10}$ (b) $\frac{6}{9}$ + $\frac{4}{9}$ (c) $\frac{5}{9}$ + $\frac{2}{9}$ (d) $\frac{8}{11}$ + $\frac{2}{11}$ (e) $\frac{4}{9}$ + $\frac{7}{9}$ (f) $\frac{5}{8}$ + $\frac{3}{8}$ + $\frac{2}{8}$ (g) $\frac{4}{6}$ + $\frac{3}{6}$ + $\frac{1}{6}$ (h) $\frac{7}{13}$ + $\frac{5}{13}$ + $\frac{4}{13}$ 4. Find the difference. Remember to show the answer in the simplest form: (a) $\frac{9}{14}$ - $\frac{4}{14}$(b) $\frac{9}{11}$ - $\frac{3}{11}$ (c) $\frac{8}{12}$ - $\frac{5}{12}$ (d) $\frac{12}{15}$ - $\frac{9}{15}$ (e) $\frac{12}{13}$ - $\frac{6}{13}$ (f) $\frac{9}{10}$ - $\frac{2}{10}$ (g) $\frac{9}{16}$ - $\frac{5}{16}$ (h) $\frac{12}{14}$ - $\frac{8}{14}$Worksheet on Word Problems on Addition and Subtraction of Like Fractions: 5. Solve these problems: (a) $\frac{1}{3}$ of the school garden has vegetable and another $\frac{1}{3}$ has flowers. What part of the garden is left to grow grass? (b) Sam spent $\frac{1}{6}$ of his Sunday doing home work and $\frac{3}{6}$ of the day watching cricket. What part of the day was left to do other things? (c) My mother ate $\frac{1}{6}$ of the cake and my father $\frac{3}{6}$. How much of the cake has been eaten and how much is left? (d) Pearl bought $\frac{2}{3}$ of her school books last week. What part is still left to be bought? (e) Sonia walked $\frac{3}{6}$ of the distance to school and ran $\frac{5}{6}$ of the distance. How much more of the distance does she need to cover? (f) Emma likes chocolate. One day she bought a chocolate and ate \\frac{5}{8}\ of it in the morning and \\frac{2}{8}\ in the evening. How much part of the chocolate has she eaten?(g) James and Lucas are eating a pizza. James ate \\frac{3}{4}\ of the pizza and Lucas ate \\frac{1}{4}\ of pizza. Who ate more pizza?(h) Sophia completed \\frac{2}{5}\ of her homework before going out for play. She did \\frac{1}{5}\ of her homework after the play. How much homework did she complete altogether?(i) David distributed \\frac{19}{24}\ apples in his class and gave \\frac{2}{24}\ to his friend Richard. What fraction of apples he gave away in all?(j) Mary read \\frac{2}{9}\ of her book in the morning and \\frac{5}{9}\ in the evening. What fraction of the book has she read?(k) A piece of ribbon is \\frac{12}{15}\ m long. A piece of \\frac{4}{15}\ m is cut from it. What is the fraction of the remaining ribbon?(l) Nancy saves \\frac{2}{7}\ of her salary and uses \\frac{1}{7}\ for paying the house rent. How much salary is she left with? Answers for the worksheet on add and subtract fractions are given below to check the exact answers of the above questions on adding & subtracting fractions. To add two or more like fractions we simplify add their numerators. The denominator remains same. In worksheet on addition of fractions having the same denominator, all grade students can practice the questions on adding fractions. This exercise sheet on fractions can be practiced by the students to get more ideas how to add fractions with the same denominators. In worksheet on subtraction of fractions having the same denominator, all grade students can practice the questions on subtracting fractions. This exercise sheet on fractions can be practiced by the students to get more ideas how to subtract fractions with the same Addition and subtraction of like fractions. Addition of Like Fractions: To add two or more like fractions we simplify add their numerators. The denominator remains same. To subtract two or more like fractions we simply subtract their numerators and keep the same denominator. In 4th grade fractions worksheet we will circle the like fractions, circle the greatest fraction, arrange the fractions in ascending order, addition of like fractions and subtraction of like fractions. We will discuss here how to arrange the fractions in ascending order. Solved examples for arranging in ascending order: 1. Arrange the following fractions 5/6, 8/9, 2/3 in ascending order. First we find the L.C.M. of the denominators of the fractions to make the denominators In comparison of unlike fractions, we change the unlike fractions to like fractions and then compare. To compare two fractions with different numerators and different denominators, we multiply by a number to convert them to like fractions. Let us consider some of the Any two like fractions can be compared by comparing their numerators. The fraction with larger numerator is greater than the fraction with smaller numerator, for example \\frac{7}{13}\ > \\frac{2}{13}\ because 7 > 2. In comparison of like fractions here are some Like and unlike fractions are the two groups of fractions: (i) 1/5, 3/5, 2/5, 4/5, 6/5 (ii) 3/4, 5/6, 1/3, 4/7, 9/9 In group (i) the denominator of each fraction is 5, i.e., the denominators of the fractions are equal. The fractions with the same denominators are called In worksheet on equivalent fractions, all grade students can practice the questions on equivalent fractions. This exercise sheet on equivalent fractions can be practiced by the students to get more ideas to change the fractions into equivalent fractions. We will discuss here about verification of equivalent fractions. To verify that two fractions are equivalent or not, we multiply the numerator of one fraction by the denominator of the other fraction. Similarly, we multiply the denominator of one fraction by the numerator Equivalent fractions are the fractions having the same value. An equivalent fraction of a given fraction can be obtained by multiplying its numerator and denominator by the same number In 5th Grade Fractions Worksheets we will solve how to compare two fractions, comparing mixed fractions, addition of like fractions, addition of unlike fractions, addition of mixed fractions, word problems on addition of fractions, subtraction of like fractions Here we will learn Reciprocal of a fraction. What is 1/4 of 4? We know that 1/4 of 4 means $\frac{1}{4} \times 4$, let us use the rule of repeated addition to find $1/4 \times 4$. We can say that \\frac{1}{4}\ is the reciprocal of 4 or 4 is the reciprocal or multiplicative inverse of 1/4 To divide a fraction or a whole number by a fraction or a whole number, we multiply the reciprocal of the divisor. We know that the reciprocal or the multiplicative inverse of 2 is \\frac{1}{2}\. ● Fractional Numbers - worksheetsWorksheet on Equivalent Fractions.Worksheet on Fractions.Worksheet on Comparison of Like Fractions.Worksheet on Conversion of Fractions.Worksheet on Changing Fractions.Worksheet on Types of Fractions.Worksheet on Reducing Fraction.Worksheet on Addition of Fractions having the Same Denominator.Worksheet on Subtraction of Fractions having the Same Denominator.Worksheet on Add and Subtract Fractions.Worksheet on Fractional Numbers. 4th Grade Math Activities From Worksheet on Add and Subtract Fractions to HOME PAGE Didn't find what you were looking for? Or want to know more information about Math Only Math. Use this Google Search to find what you need. Share this page: What's this?

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