Converting fractions decimals percents word problems worksheet

I'm not robot!

Name_____ Hw# 1

Fill out all the missing values in the chart.

	Fraction	decimal	percent
1)	½	_____	_____
2)	_____	0.34	_____
3)	_____	_____	25%
4)	¼	_____	_____
5)	_____	0.7	_____
6)	_____	_____	60%
7)	¾	_____	_____
8)	_____	0.05	_____
9)	_____	_____	1%
10)	5/4	_____	_____
11)	_____	1.1	_____
12)	_____	_____	25.5%
13)	1/3	_____	_____
14)	_____	0.4444	_____
15)	7/100	_____	_____
16)	_____	_____	0.13%

Fraction, Percent, and Decimal Word Problems

Name_____

1. 50% of the 900 students at Jefferson Middle School are boys. One-tenth of the boys are in the band, and one-fifth of those play the trumpet. What percent of all students at Jefferson are boys who play the trumpet in the band?

2. During class, Brad finished 63% of his homework, and Liz completed 5/7 of her homework. Who must finish a greater percent of homework at home?

3. About 540 out of every 1000 people in the United States owned a cell phone in 2003. In Japan, 68% of people owned a cell phone. How much greater was the percent of cell phone ownership in Japan than in the U.S.?

4. When asked about their favorite Thanksgiving leftover, 1/20 of the people said vegetables and 7% said mashed potatoes. Which food was more popular and by what percent?

5. Carissa's Corner is offering 20% off a hair dryer that costs $19.99. The same hair dryer costs $14.99 at Hair Haven. Which store offers the better deal?

6. Ancient Egyptians hammered gold into sheets so thing that it took 3.67 x 10⁵ sheets to make a pile 2.5 centimeters high. Write the number of sheets in standard form.

Problem 1 :The denominator of a fraction exceeds the numerator by 5. If 3 be added to both, the fraction becomes 3/4. Find the fraction.Solution :Let x be the numerator.Given :The denominator of the fraction exceeds the numerator.Then, the required fraction isx/(x + 5) ----(1)Given : If 3 be added to both, the fraction becomes 3/4.(x + 3)/(x + 5 + 3) = 3/4Simplify and solve for x.(x + 3)/(x + 8) = 3/44(x + 3) = 3(x + 8)4x + 12 = 3x + 24x + 24x = 12To get the required fraction, substitute 12 for x in (1).(1)----> x/(x + 5) = 12/(12 + 5)x/(x + 5) = 12/27So, the required fraction is 12/27.Problem 2 :In a school, there are 450 students in total. If 2/3 of the total strength are boys, find the number of girls in the school.Solution :Given : Total no. of students in the school is 450 and 2/3 of the total strength is boys.Then, no. of boys in the school is= 450 · 2/3= 300Out of the total students 450, there are 300 boys. Then no. of girls is= 450 - 300= 150So, the numbers girls in the school is 150.Problem 3 :The width of the rectangle is 2/3 of its length. If the perimeter of the rectangle is 80 cm. Find its area.Solution :Let x be the length of the rectangle.Then, width of the rectangle is = 2x/3Given : Perimeter = 80 cm.2(l + w) = 80Divide both sides by 2.l + w = 40Substitute x for l and 2x/3 for w.x + 2x/3 = 40(3x + 2x)/3 = 405x = 120Divide each side by 5.x = 242x/3 = 2(24)/3 = 16Therefore, length and width of the rectangle are 24 cm and 16 cm.Area of the rectangle is = l · w = 24 · 16 = 384 square cm.So, the area of the rectangle is 384 square cm.Problem 4 :A chemist mixed 20 percent of 6.36 grams of one compound with 60 percent of 2.48 grams of another compound. How many grams were there in the mixture?Solution :Quantity taken from the first compound is = 20% of 6.36= 0.2 · 6.36= 1.272Quantity taken from the first compound is= 60% of 2.48= 0.6 · 2.48= 1.488Total quantity of mixture is= Quantity from 1st comp + Quantity from 2nd comp= 1.272 + 1.488= 2.76So, the quantity of the mixture is 2.76 grams.Problem 5 :David buys 3 pens where the price of each pen is $1.5 and the 4 pencils where the price of each pen is $0.75. If he gets a discount of 10% in the total bill, how much does he have to pay?Solution :First, find the total bill.Total bill = (3 · 1.5) + (4 · 0.75)= 4.5 + 3= $7.5Given : Discount is 10%.The money that he has to pay is= 90% of the total bill= 0.9 · 7.5= 6.75So, David has to pay $6.75.Problem 6 :Joseph earned $24.60 for working 6 hours. How much will earn, if he works for 7.5 hours?Solution :Given : Money earned in 6 hours is $24.60.Then, money earned in 1 hour is= 24.60 / 6= $4.10Therefore money earned in 7.5 hours is= 7.5 · 4.10= $30.75So, money earned in 7.5 hours is $30.75.Problem 7 :A pipe is 76.8 meters long. What will the greatest number of pieces each 8 meters long that can be cut from this pipe?Solution :The original length of the pipe is 76.8 meters.The length of each pipe piece is 8 meters.No of pieces where each piece has length 8 meters is= 76.8/8= 9.6So, the greatest number of pieces of pipe each 8 meters long is 9.Problem 8 :The cost of a toy is $22.5. If the profit is 20%, then the selling price is 120% of cost price.Selling price = 120 % of cots priceSelling price = 1.2 · 22.5Selling price = 27So, the selling price of the toy is $27. Kindly mail your feedback to v4formath@gmail.comWe always appreciate your feedback. ©All rights reserved. onlinemath4all.com September 25, 2019 corbettmaths FDP, ordering, converting Copyright © 2021 K5 Learning Live worksheets > English Finish!!   Please allow access to the microphone Look at the top of your web browser. If you see a message asking for permission to access the microphone, please allow. Welcome to our Fractions Decimals Percents Worksheets page. Here you will find a wide range of printable Fraction Worksheets which will help your child understand and practice how to convert between fractions, decimals and percentages. Looking to convert fractions to percentages or decimals; decimals to fractions or percentages; percentages to fractions or decimals? Then look no further - we have what you need! Below are some common conversions for fractions into decimals and percents. Fraction Equivalent to Decimal Percent 1/2 2/2 1/3 2/3 3/3 1/4 2/4 3/4 4/4 1/5 2/5 3/5 4/5 5/5 1/6 2/6 3/6 4/6 5/6 6/6 1/8 2/8 3/8 4/8 5/8 6/8 7/8 8/8 1/10 2/10 3/10 4/10 5/10 6/10 7/10 8/10 9/10 10/10 1/2 1 1/3 2/3 1 1/4 1/2 3/4 1 1/5 2/5 3/5 4/5 5/5 1/6 1/3 1/2 2/3 5/6 1 1/8 1/4 3/8 1/2 5/8 3/4 7/8 1 1/10 1/5 3/10 2/5 1/2 3/5 7/10 4/5 9/10 1 0.5 1.0 0.333 0.667 1.0 0.25 0.5 0.75 1.0 0.2 0.4 0.6 0.8 1.0 0.167 0.333 0.5 0.666 0.833 1.0 0.125 0.25 0.375 0.5 0.625 0.75 0.875 1.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 50% 100% 33.3% 66.7% 100% 25% 50% 75% 100% 20% 40% 60% 80% 100% 16.7% 33.3% 50% 66.7% 83.3% 100% 12.5% 25% 37.5% 50% 62.5% 75% 87.5% 100% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100% Where a digit is underlined, it means that the number has been rounded to 3 decimal places, or to the nearest 0.1%. We have split up our fractions decimals percents worksheets into several different sections to make it easier for you to choose the skill you want to practice. The first section is just converting fractions into decimals and percents. The second sections is about converting decimals to percents and fractions. The third section covers convertig percents to fractions and decimals. The last section involves converting between all three. The sheets are carefully graded so that the supported and easier sheets come first, and the most difficult sheet is the last one. Using these sheets will help your child to: convert between fractions decimals and percents. These sheets are aimed at 5th, 6th and 7th graders. Now is your chance to practice your fractions decimals and percents problem solving skills with some fun riddles! Take a look at some more of our worksheets similar to these. The printable fraction page below contains support, examples and practice using equivalent fractions. Finding Equivalent Fractions support page Equivalent Fractions Worksheets We have some carefully graded worksheets on comparing and ordering fractions. You can choose from supported sheets with diagrams for students who need extra help to harder worksheets for those more confident. Comparing Fractions Worksheet page Take a look at our Simplifying Fractions Practice Zone or try our worksheets for finding the simplest form for a range of fractions. You can choose from proper fractions, improper fractions or both. You can print out your results or benchmark your scores against future achievements. Good for practising equivalent fractions as well as converting to simplest form. Great for using with a group of children as well as individually. Simplify Fractions Practice Zone Simplifying Fractions Worksheet page Riddles are a great way to get children to apply their knowledge of fractions. These riddles are a good way to start off a maths lesson, or also to use as a way of checking your child's understanding about fractions. All the fraction riddles consist of 3 or 4 clues and a selection of 6 or 8 possible answers. Children have to read the clues and work out which is the correct answer. The riddles can also be used as a template for the children to write their own clues for a partner to guess. Fraction Riddles for kids (easier) Free Printable Fraction Riddles (harder) Are you looking for free fraction help or fraction support? Here you will find a range of fraction help on a variety of fraction topics, from simplest form to converting fractions. There are fraction videos, worked examples and practice fraction worksheets. Our quizzes have been created using Google Forms. At the end of the quiz, you will get the chance to see your results by clicking 'See Score'. This will take you to a new webpage where your results will be shown. You can print a copy of your results from this page, either as a pdf or as a paper copy. For incorrect responses, we have added some helpful learning points to explain which answer was correct and why. We do not collect any personal data from our quizzes, except in the 'First Name' and 'Group/Class' fields which are both optional and only used for teachers to identify students within their educational setting. We also collect the results from the quizzes which we use to help us to develop our resources and give us insight into future resources to create. For more information on the information we collect, please take a look at our Privacy Policy We would be grateful for any feedback on our quizzes, please let us know using our Contact Us link, or use the Facebook Comments form at the bottom of the page. How to Print or Save these sheets Need help with printing or saving? Follow these 3 easy steps to get your worksheets printed out perfectly! The Math Salamanders hope you enjoy using these free printable Math worksheets and all our other Math games and resources. We welcome any comments about our site or worksheets on the Facebook comments box at the bottom of every page. Page 2 Welcome to our 2 Digit Multiplication Worksheets page. Here you will find a range of free printable Multiplication worksheets on this page to help you practice the skills of multiplying 2-digit numbers by 1 or 2 digits. We have split the worksheets on this page into two sections: 2-digit x 1-digit multiplication (3rd grade) 2-digit x 2-digit multiplication (4th grade) Each section ends with some trickier challenge sheets for more able students. Within each section, the sheets are carefully graded with the easiest sheets first. These sheets are aimed at 3rd graders. Sheets 1 to 4 consists of 15 problems; sheets 5 and 6 consist of 20 problems. Sheets 1 and 2 involve multiplying 2-digit numbers by 2, 3, 4 or 5. Sheets 3 to 6 involve multiplying a 2-digit number by single digit numbers and finding increasing trickier products. These 2-digit multiplication worksheets have been designed for more able students who need that extra challenge! These sheets are aimed at 4th graders. Sheet 1 involves 2-digit by 2-digit multiplication with smaller numbers and answers up to 1000. Sheets 2 to 4 have harder 2-digit numbers to multiply and answers that are generally larger than 1000. These 2-digit multiplication worksheets have been designed for more able students who need that extra challenge! We have more 2-digit multiplication worksheets, including 2-digit x 3-digit multiplication problems on this page. More Double digit Multiplication Worksheets (harder) Take a look at some more of our worksheets similar to these. Need to create your own long or short multiplication worksheets quickly and easily? Our Multiplication worksheet generator will allow you to create your own custom worksheets to print out, complete with answers. Here you will find a range of Multiplication Worksheets to help you become more fluent and accurate with your tables. Using these sheets will help your child to: learn their multiplication tables up to 10 x 10; understand and use different models of multiplication; solve a range of Multiplication problems. All the free 3rd Grade Math Worksheets in this section are informed by the Elementary Math Benchmarks for 3rd Grade. Here you will find a range of Free Printable Multiplication Games to help kids learn their multiplication facts. Using these games will help your child to learn their multiplication facts to 5x5 or 10x10, and also to develop their memory and strategic thinking skills. Multiplication Math Games How to Print or Save these sheets Need help with printing or saving? Follow these 3 easy steps to get your worksheets printed out perfectly! How to Print or Save these sheets Need help with printing or saving? Follow these 3 easy steps to get your worksheets printed out perfectly! 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