Fraction to percent to decimal worksheet

Continue

Common Fractions with Decimal and Percent Equivalents

Fraction	Decimal	Percent		
1/2	0.5	50%		
1/3	0.333	33.333%		
2/3	0.666	66.666%		
1/4	0.25	25%		
3/4	0.75	75%		
1/5	0.2	20%		
2/5	0.4	40%		
3/5	0.6	60%		
4/5	0.8	80%		
1/6	0.1666	16.666%		
5/6	0.8333	83.333%		
1/8	0.125	12.5%		
3/8	0.375	37.5%		
5/8	0.625	62.5%		
7/8	0.875	87.5%		
1/9	0.111	11.111%		
2/9	0.222	22.222%		
4/9	0.444	44.444%		
5/9	0.555	55.555%		
7/9	0.777	77.777%		
8/9	0.888	88.888%		
1/10	0.1	10%		
1/12	0.08333	8.333%		
1/16	0.0625	6.25%		
1/32	0.03125	3.125%		

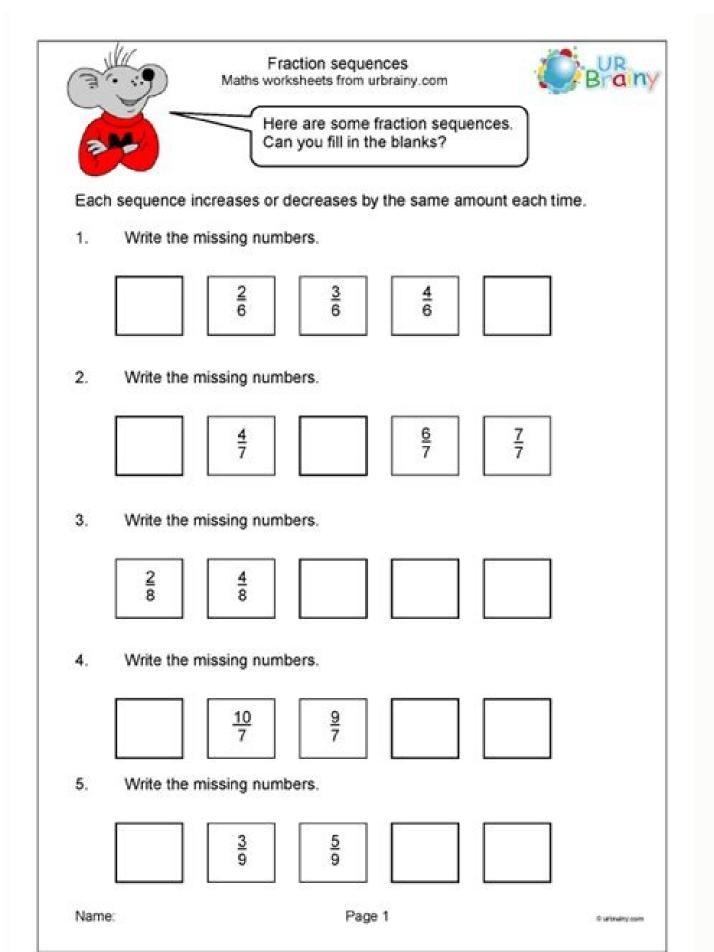
Ben weighs 7.6kg. His older brother is 3 times as heavy. How much does his older brother weigh?

Sarah bought 12 meters of fabric to make a patchwork quilt. If the fabric was on sale for \$6.29 per meter, how much did Sarah spend?

Tom buys 3 liters of yellow paint and 2 liters of blue paint. If the yellow paint is \$12.95 a liter and the blue paint is \$14.95 a liter, how much does Tom spend on paint?

Carlos needs to buy 6 pens and some colored pencils for school. He has \$25.00 to spend. If the pens cost \$3.50 each, how much does he have left to spend on colored pencils?

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Name:	Class:	Date:
Tall to the Carlotte		

Expressing Fractions as Decimals (Hundredths)

Express the fraction as a decimal.

(a)
$$\frac{81}{100} = \Box$$

(b)
$$\frac{95}{100} = \Box$$

(c)
$$\frac{23}{100} = \Box$$

(d)
$$\frac{42}{100} = \Box$$

(e)
$$\frac{93}{100} = \Box$$

$$\frac{(f)}{100} = \Box$$

$$\frac{(g)}{100} = \Box$$

$$\frac{(h)}{100} =$$

(i)
$$\frac{64}{100} = \Box$$

$$\frac{(j)}{100} = \Box$$

$$\frac{(k)}{100} = \Box$$

(I)
$$\frac{94}{100} = \Box$$

$$\frac{100}{100} = \Box$$

(n)
$$\frac{10}{100} = \Box$$

(o)
$$\frac{73}{100} = \Box$$

(p)
$$\frac{83}{100} =$$

$$\frac{100}{100} = \frac{48}{100} = \frac{1}{100}$$

(r)
$$\frac{11}{100} = \Box$$

(s)
$$\frac{5}{100} = \Box$$

(t)
$$\frac{27}{100} = \Box$$

$$\frac{53}{100} = \Box$$

$$\frac{(v)}{100} = \Box$$

(w)
$$\frac{13}{100} = \Box$$

$$\frac{(x)}{100} = \Box$$

$$\frac{(y)}{100} = \Box$$

$$\frac{34}{100} = \Box$$

Date		Name				Class	
	lent Frac		e equivalent fra	ctions.			
<u>1</u> =	2	3 =	6	<u>5</u> =	10	7 =	
2	4	9			6	3	6
	20	1	8	7 _		5 _	40
2	8	7		8	40		8
<u>8</u> =		<u>1</u> =	9	4 — =			8
2	14	7		8	32	5	20
9 _		2 _	6	1 _	3	9 _	
3	30	_	12	6		4	44
	100	8 — =		4 =	16	<u>5</u> =	15
10	40	2	18		40	2	
1 =		1 — =	6		24	1 =	
9	45	4		5	10	3	9
<u>2</u> =	4	9 =		7 =		6 =	36
	8	2	8	2	4	2	

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Change fraction to decimal to percent worksheet. Convert fraction to decimal to percent worksheet. How to convert percent fraction to decimal. How to do you convert fraction to decimal. Fraction to decimal to percent worksheet pdf.

Turn the practice mode up full with our pdf worksheets and convert between fractions, decimals, and percents with imagination and flair. Allow learners in grade 4 through grade 8 to go over the basic formulas for converting numbers in one form into the other. Watch them accomplish a range of tasks including conversions through grids as visual aids, decimal to fraction conversion, percent to decimal conversion, percent to decimal conversion, and much more. Jumpstart your journey with our free worksheets! Converting between fractions and decimals? Our printable resources make your work easy! Review their knowledge and flair with these no-prep practice worksheets. (18 Worksheets) Converting between Fractions and Percentages and percentages to fractions using the correct formula. Converting Decimals to Percents Do 4th grade, 5th grade, 6th grade and 7th grade and 7th grade students know that 0.12 is 12%? Simply multiply the decimals Give your best shot to converting percents to decimals! Remove the percent sign and divide the percent by 100 to convert the percentage into a decimal. For example, 9% = 0.09. Converting between Decimals and Percents Rank high above your peers using printable worksheets on converting decimals and percents. The task is for grade 8 learners to find the answers with precision. This Percent Worksheet is great for practicing converting between percents, decimals, and fractions. You may select six different types of percent worksheet will produce 30 or 36 problems per page depending on your selection. Click here for More Percent Worksheets Wondering how to convert decimals to fractions? Or how to convert fractions to decimals? It's easier than you think! Keep reading to see the steps for fraction to decimal to fraction to decimal to fraction to decimal to fraction to decimal fraction to decimal fraction conversions, and tips for quickly estimating conversions. How to Convert Decimals to Fractions How do you convert a decimal to a fraction? Any decimal to a fraction A terminating decimal is any decimal is any decimal that has a finite other of digits. In other words, it has an end. Examples include .5, .234, .864721, etc. Terminating decimal divided by one. For example, say you're given the decimal .55. Your first step is to write out the decimal point, so we'll want to multiply the entire fraction by 10 x 10, or 100. Multiplying the fraction by \$\{100\}/\{100\}\$ gives us \$\{55\}/\{100\}\$. Step 3 The final step is reducing the fraction to its simplest form. The simplest form of the fraction is when the top and bottom of the fraction are the smallest whole numbers they can be. For example, the fraction \$\{3\}/\{9\}\$ isn't in its simplest form because it can still be reduced down to \(\frac{1}{3}\) by dividing both the top and bottom of the fraction by 3. The fraction by 5, giving us \$\{11\}/\{20\}\\$. 11 is a prime number and bottom of the fraction by 5, giving us \$\{11\}/\{20\}\\$. Example Convert .108 to a fraction. After putting the decimal over 1, we end up with \$\{1.08}/\{1.108\}/\{1.108\}. Since .108 has three digits after the decimal place, we need to multiply the entire fraction by 10 x 10 x 10, or 1000. This gives us \$\{1.08\}/\{1.10 gives us \$\{54\}/\{500\}\$. These are still even numbers, so we can divide by 2 again to get \$\{27\}/\{250\}\$. Converting a Repeating Decimal to a Fraction A repeating decimal is one that has no end. Since you can't keep writing or typing the decimal out forever, they are often written as a string of digits rounded off (.666666667) or with a bar above the repeating digit(s) \$\ov {(.6)}\$. For our example, we'll convert .6667 to a fraction. The decimal is actually a string of 6's that goes on forever. Step 1 Let x equal the repeating decimal you're trying to convert, and identify the repeating digit(s). So x=.6667 6 is the repeating digit(s) on the left side of the decimal. For .6667, we know that 6 is the repeating digit. We want that six on the left side of the decimal, which means moving the decimal place over one spot. So we multiply both sides of the decimal. In this example, with 6 as the repeating digit, you only want one 6 on the left of the decimal. If the decimal was 0.58585858, you'd only want one set of "58" on the left side. If it helps, you can picture all repeating decimals with the infinity bar over them, so .6667 would be \$\ov {(.6)}\$. Step 3 Next we want to get an equation where the repeating digit is just to the right of the decimal. Looking at x = .6667, we can see that the repeating digit (6) is already just to the right of the decimal, so we don't need to do any multiplication. We'll keep this equation as x = .667 and 10x = 6.667. Step 4 Now we need to solve for x using our two equations, x = .667 and 10x = 6.667. Step 4 Now we need to solve for x using our two equations, x = .667 and 10x = 6.667. Step 4 Now we need to solve for x using our two equations, x = .667 and 10x = 6.667. Step 4 Now we need to solve for x using our two equations, x = .667 and x = .66same steps that we did above. First, make the decimal equal to x, and determine the repeating digits on the left side of the decimal digits on the left. This involves moving the decimal three places to the right, so both sides need to be multiplied by (10 x 3) or 1000. 1000x = 1036.363636 Now get the repeating digits to the right of the decimal and the repeating digits. The decimal needs to be moved over one space, so both sides need to be multiplied by 10 x 1. 10x = 10.363636 Now use the two equations, 1000x = 1036.363636 and 10x = 10.363636, to solve for x. 1000x - 10x = 1036.363636 and 10x = 10.363636 and convert it to a regular fraction. You can do this by subtracting 990/990 from the fraction and making it a 1 that'll go next to the fraction and by subtracting 990/990 from the fraction 990/990 from the fraction and 990/990 from the fraction 990/990 from 990/990 from 990/99fraction to a decimal is just to use your calculator. The line between the numerator and denominator acts as a division line, so \${7}/{29}\$ equals 7 divided by 29 or .241. If you don't have access to a calculator though, you can still convert fractions to decimal by using long division or getting the denominator to equal a multiple of 10. We explain both these methods in this section. Long Division Method Convert \$\(3\)/\{8\}\$ to a decimal. Here is what \$\(3\)/\{8\}\$ to a decimal is .375 Denominator as a Value of 10 Method Convert \$\(43\)/\{8\}\$ to a decimal. Step 1 We want the denominator, in this case 8, to equal a value of 10. We can do this by multiplying the fraction by 125, giving us \${375}/{1000}\$. Step 2 Next we want to get the denominator to equal 1 so we can get rid of the fraction by 1000, which means moving the decimal over three places to the left. This gives us \${.375}/{1}\$ or just .375, which is our answer. Note that this method only works for a fraction with a denominator that can easily be multiplied to be a value of 10. However, there is a trick you can use to estimate the value of fractions you can use the value of fractions you but you can get close. By multiplying ½ by \${333}/, we get \${666}/{999}\$. 999 is very close to 1000, divide each part of the fraction by 1000, and move the decimal conversion of ½ is the repeating decimal .6666667, but .666 gets us very close. So whenever you have a fraction whose denominator can't easily be multiplied to a value of 10 (this will happen to all fractions that convert to repeating decimals), just get the denominator can't easily be multiplied to a value of 10 (this will happen to all fractions that convert to repeating decimals), just get the denominator can't easily be multiplied to a value of 10 (this will happen to all fractions that convert to repeating decimals), just get the denominator can't easily be multiplied to a value of 10 (this will happen to all fractions that convert to repeating decimals), just get the denominator can't easily be multiplied to a value of 10 (this will happen to all fractions that convert to repeating decimals). conversions. You don't need to memorize these, but knowing at least some of them off the top of your head will make it easy to do some common conversions. If you're trying to convert a decimal or fraction and don't have a calculator, you can also see which value in this chart the number is closest to so you can make an educated estimate of the (one with a digit or digit that repeats to infinity). Once you've done that, you can follow a few steps for the decimal to fraction conversion and for writing decimals as fractions. If you don't have one handy, you can use long division or get the denominator equal to a multiple of ten, then move the decimal place of the numerator over. For quick estimates of decimal to fraction conversions and see which is closest to your figure to get a ballpark idea of its conversion value. What's Next? Want to know the fastest and easiest ways to convert between Fahrenheit and Celsius? We've got you covered! Check out Tutorbase! Our vetted tutor database includes a range of experienced educators who can help you polish an essay for English or explain how derivatives work for Calculus. You can use dozens of filters and search criteria to find the perfect person for your needs.

This index page will link you to all types of addition worksheets, including basic facts, 2-digit addends, 4-digit addends, 4

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