

Fractions and decimal fractions

Most calculators do not display fractions as you usually write them.

But it is easy to change fractions into decimal fractions using a calculator.

 $\frac{1}{2}$ means 1 divided by 2 or $1 \div 2$.

Do this on a calculator: enter $1 \div 2 =$

The answer 0.5 will come up.

This means that $\frac{1}{2}$ is the same as 0.5

Find the decimal fraction for these fractions. Complete all parts of the table below.

<u>3</u> 5	Means 3 divided by 5	3 ÷ 5 =	0.6
<u>2</u> 5	Means		
<u>6</u> 10	Means		
<u>7</u> 10	Means		
<u>3</u> 4	Means		
<u>9</u> 10	Means		



Fractions and decimal fractions

Most calculators do not display fractions as you usually see them, but it can display them as decimal fractions.

 $\frac{15}{100}$ can be thought of as fifteen divided by one hundred or $15 \div 100$ which equals 0.15

Do this on a calculator: enter $15 \div 10 =$

The answer 0.15 will come up.

This means that $\frac{15}{100}$ is the same as 0.15

Find the decimal fraction for these fractions. Complete all parts of the table below.

<u>13</u> 100	Means 13 divided by 100	13 ÷ 100 =	0.13
100	Means		
<u>6</u> 10	Means		
<u>45</u> 100	Means		
<u>33</u> 100	Means		
<u>12</u> 100	Means		
<u>10</u> 10	Means		

Name:



Mixed numbers as decimal fractions - extension

 $4\frac{3}{10}$ can be written as 4.3 when using a calculator.

This is because $\frac{3}{10}$ means 3 ÷ 10 which is 0.3

Write these mixed numbers as decimal fractions:

1.	8 <u>35</u> 100	 Just think of a fraction as a division sum - it's
2.	$4\frac{15}{100}$.	 easy then! Three quarters means 3 divided
3.	2 ¹ / ₅	 by 4
4.	7 <u>6</u>	 N (-) M
5.	$4\frac{3}{5}$.	 M
6.	5 <u>90</u> 100	
7.	3 <u>70</u> 100 .	
8.	6 <u>65</u> 100 .	

Name:



Mixed numbers as decimal fractions - extension

 $6\frac{3}{10}$ can be written as 6.3 when using a calculator.

This is because $\frac{3}{10}$ means 3 ÷ 10 which is 0.3

Write these mixed numbers as decimal fractions:

1.	$7\frac{44}{100}$	99 hundredths is 0.99
2.	5 ²² / ₁₀₀	Now that is very nearly one whole one!
3.	3 ⁶ / ₁₀	
4.	8 <u>1</u> 00	
5.	5	M
6.	6 <u>2</u>	
7.	4 <u>15</u>	
8.	$6 \frac{69}{100}$	

Name:



Decimal fractions to fractions

The first number after the decimal point is in the tenths column.							
So, 0.4 means 4 tenths. It can a	lso be written a	s <u>4</u> 10					
0.04 means 4 hundredths. It can	be written as ₁	<u>4</u> 00					
0.44 means 4 tenths and 4 hund	redths or 44 hu	ndredths.					
It can be written as $\frac{44}{100}$							
Write down the fractions which e	qual these dec	imals:					
1. 0.4 2. 0.8 3. 0.18 4. 0.38 5. 0.54							
6. Which of these decimals is eq	ual to <u>8</u> ?						
8.8 0.18	0.88	0.8	0.810				
7. Which of these decimals is equal to $\frac{35}{100}$?							
0.035 0.135	3.5	3.500	0.35				
Remember: 0.5 and 0.50 are the same - each equals five tenths.							
The calculator will not display any unnecessary 0s at the end of a decimal number. It will show $\pounds 3.60$ as 3.6							
Write down how a calculator displays these numbers:							
8. 2.200	ə. 4.00						
10. 5.100 11. 6.20							
12. 7.10000							

Equivalence between decimals and fractions Maths worksheets from urbrainy.com



<u>Answers</u>

Page 1

2/5 means two divided by five	2 ÷ 5 = 0.4
6/10 means six divided by ten	6 ÷ 10 = 0.6
7/10 means seven divided by ten	7 ÷ 10 = 0.7
3/4 means three divided by four	3 ÷ 4 = 0.75
9/10 means nine divided by ten	9 ÷ 10 = 0.9

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1/100	means one divided by a hundred				1 ÷ 100 = 0.01		
6/10	means six divided by ten			6 ÷ 10 = 0.6			
45/100	means forty five divided by a hundred			45 ÷ 100 = 0.45			
33/100	means thirty three divided by a hundred				33 ÷ 100 = 0.33		
12/100	means twelve divided by a hundred			12 ÷ 100 = 0.12			
10/10	means ten divided by ten			10 ÷ 10 = 1			
Page 3							
1. 8.35	2. 4.15	3. 2.2	4. 7.6	5. 4.6	6. 5.9	7. 3.7	8. 6.65
Page 4							
1. 7.44	2. 5.22	3. 3.6	4. 8.0′	1 5. 5.99	6. 6.02	7. 4.1	5 8. 6.69
Page 5							
1. 4/10	2. 8/10	3. 18	/100	4. 38/100	5. 54/1	00 6	6. 0.8
7. 0.35	8. 2.2	9. 4		10. 5.1	11. 6.2	1:	2. 7.1