

Converting Measurements with a Place Value Chart

When converting measurements from one unit to another, a correctly used place value chart is almost as useful as a calculator. In fact, think of it as your calculator! As long as you position your number correctly and move them the correct number of spaces to the left or right, you can't be wrong!

Here's your place value chart...

TTh	Th	H	T	O	t	h	th	tth	hth
					•				

Write a 3-digit number on a piece of tracing paper or clear plastic and practice moving the whole number to the left or right.

x1000	x100	x10	÷10	÷100	÷1000
Move 3 places to the left.	Move 2 places to the left.	Move 1 place to the left.	Move 1 place to the right.	Move 2 places to the right.	Move 3 places to the right.

Now to convert some measurements. Use the information below and your place value chart calculator to fill in the blanks.

mm	$\xrightarrow{\div 10}$	cm	$\xrightarrow{\div 100}$	m
	$\xleftarrow{\times 10}$		$\xleftarrow{\times 100}$	

Converting Measurements with a Place Value Chart

mm	cm	m
2000	200	2
300	30	
160	16	
3400		3.4
67		
	45	
		1.8
346		
	190	
	99	
		10
1568		

Converting Measurements with a Place Value Chart **Answers**

mm	cm	m
2000	200	2
300	30	0.3
160	16	0.16
3400	340	3.4
67	6.7	0.067
450	45	0.45
1800	180	1.8
346	34.6	0.346
1900	190	1.9
990	99	0.99
10000	1000	10
1568	156.8	1.568