

Converting Between Metres, Centimetres and Millimetres

LO: I can convert between different units of metric measure

There are three workmen; one has a tape measure that only shows metres, the second man's only shows centimetres and the final workman's shows just millimetres. Complete the tables below to help the workmen by converting the measures.

1.

Metres	Centimetres	Millimetres
0.327		
0.794		
0.329		
0.818		
0.651		
0.215		
0.802		
0.57		
0.845		
0.453		

2.

Metres	Centimetres	Millimetres
6.674		
5.016		
1.014		
3.125		
5.47		
8.215		
5.23		
1.551		
4.228		
9.774		

3.

Metres	Centimetres	Millimetres
	10.4	
	91	
	15.4	
	30.7	
	0.5	
	86.7	
	86.2	
	13	
	39.4	
	50.4	

4.

Metres	Centimetres	Millimetres
	724.4	
	575.7	
	598.3	
	907.7	
	264.6	
	978.4	
	369	
	292.3	
	263.7	
	472.9	

5.

Metres	Centimetres	Millimetres
		871
		259
		522
		916
		840
		983
		365
		587
		339
		112

6.

Metres	Centimetres	Millimetres
		9043
		1659
		1386
		4207
		1349
		4900
		2456
		3173
		4942
		7136

7.

Metres	Centimetres	Millimetres
		546
	84.4	
0.842		
	60.7	
		820
	89.4	
0.011		
		271
	83.9	
0.107		

8.

Metres	Centimetres	Millimetres
	767.7	
9.489		
	187.5	
		3966
		5257
2.534		
		5295
7.231		
	359.4	
		5304

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There are three workmen; one has a tape measure that only shows metres, the second man's only shows centimetres and the final workman's shows just millimetres. Complete the tables below to help the workmen by converting the measures.

1.

Metres	Centimetres	Millimetres
0.327	32.7	327
0.794	79.4	794
0.329	32.9	329
0.818	81.8	818
0.651	65.1	651
0.215	21.5	215
0.802	80.2	802
0.57	57	570
0.845	84.5	845
0.453	45.3	453

2.

Metres	Centimetres	Millimetres
6.674	667.4	6674
5.016	501.6	5016
1.014	101.4	1014
3.125	312.5	3125
5.47	547	5470
8.215	821.5	8215
5.23	523	5230
1.551	155.1	1551
4.228	422.8	4228
9.774	977.4	9774

3.

Metres	Centimetres	Millimetres
0.104	10.4	104
0.91	91	910
0.154	15.4	154
0.307	30.7	307
0.005	0.5	5
0.867	86.7	867
0.862	86.2	862
0.13	13	130
0.394	39.4	394
0.504	50.4	504

4.

Metres	Centimetres	Millimetres
7.244	724.4	7244
5.757	575.7	5757
5.983	598.3	5983
9.077	907.7	9077
2.646	264.6	2646
9.784	978.4	9784
3.69	369	3690
2.923	292.3	2923
2.637	263.7	2637
4.729	472.9	4729

5.

Metres	Centimetres	Millimetres
0.871	87.1	871
0.259	25.9	259
0.522	52.2	522
0.916	91.6	916
0.84	84	840
0.983	98.3	983
0.365	36.5	365
0.587	58.7	587
0.339	33.9	339
0.112	11.2	112

6.

Metres	Centimetres	Millimetres
9.043	904.3	9043
1.659	165.9	1659
1.386	138.6	1386
4.207	420.7	4207
1.349	134.9	1349
4.9	490	4900
2.456	245.6	2456
3.173	317.3	3173
4.942	494.2	4942
7.136	713.6	7136

7.

Metres	Centimetres	Millimetres
0.546	54.6	546
0.844	84.4	844
0.842	84.2	842
0.607	60.7	607
0.82	82	820
0.894	89.4	894
0.011	1.1	11
0.271	27.1	271
0.839	83.9	839
0.107	10.7	107

8.

Metres	Centimetres	Millimetres
7.677	767.7	7677
9.489	948.9	9489
1.875	187.5	1875
3.966	396.6	3966
5.257	525.7	5257
2.534	253.4	2534
5.295	529.5	5295
7.231	723.1	7231
3.594	359.4	3594
5.304	530.4	5304

Converting Between Millimetres and Centimetres

LO: I can convert between different units of metric measure

One carpenter only has measurements in millimetres and another only has measurements in centimetres.

Complete the tables below to help the carpenters by converting millimetres into centimetres and centimetres into millimetres.

1.

Millimetres	Centimetres
3.8	
9.8	
0.7	
2	
3.6	
5.3	
4.7	
4.3	
3.7	
7.7	

2.

Millimetres	Centimetres
15	
8.5	
37.3	
47.2	
73.1	
54.3	
16.8	
18.4	
5.9	
42.9	

3.

Millimetres	Centimetres
	0.91
	0.07
	0.95
	0.02
	0.33
	0.88
	0.67
	0.06
	0.86
	0.65

4.

Millimetres	Centimetres
	6.22
	3.38
	3.75
	2.76
	1.9
	7.03
	3.8
	4.66
	8.63
	0.49

5.

Millimetres	Centimetres
	0.91
5.3	
	0.77
7.2	
1.6	
	0.27
0.2	
	0.04
	0.68
2.5	

6.

Millimetres	Centimetres
	9.43
71.6	
	3.16
	8.32
44.9	
88	
	4.46
	7.2
82.8	
85.4	

Converting Between Millimetres and Centimetres Answers

LO: I can convert between different units of metric measure

One carpenter only has measurements in millimetres and another only has measurements in centimetres.

Complete the tables below to help the carpenters by converting millimetres into centimetres and centimetres into millimetres.

1.

Millimetres	Centimetres
3.8	0.38
9.8	0.98
0.7	0.07
2	0.2
3.6	0.36
5.3	0.53
4.7	0.47
4.3	0.43
3.7	0.37
7.7	0.77

2.

Millimetres	Centimetres
15	1.5
8.5	0.85
37.3	3.73
47.2	4.72
73.1	7.31
54.3	5.43
16.8	1.68
18.4	1.84
5.9	0.59
42.9	4.29

3.

Millimetres	Centimetres
9.1	0.91
0.7	0.07
9.5	0.95
0.2	0.02
3.3	0.33
8.8	0.88
6.7	0.67
0.6	0.06
8.6	0.86
6.5	0.65

4.

Millimetres	Centimetres
62.2	6.22
33.8	3.38
37.5	3.75
27.6	2.76
19	1.9
70.3	7.03
38	3.8
46.6	4.66
86.3	8.63
4.9	0.49

5.

Millimetres	Centimetres
9.1	0.91
5.3	0.53
7.7	0.77
7.2	0.72
1.6	0.16
2.7	0.27
0.2	0.02
0.4	0.04
6.8	0.68
2.5	0.25

6.

Millimetres	Centimetres
94.3	9.43
71.6	7.16
31.6	3.16
83.2	8.32
44.9	4.49
88	8.8
44.6	4.46
72	7.2
82.8	8.28
85.4	8.54

Converting Between Centimetres and Metres

LO: I can convert between different units of metric measure

One builder only has measurements in centimetres and another only has measurements in metres.

Complete the tables below to help the builders by converting centimetres into metres and metres into centimetres.

1.

Centimetres	Metres
91	
66	
65	
23	
19	
59	
88	
0	
11	
95	

2.

Centimetres	Metres
17.8	
6.3	
46	
54.8	
74.4	
39.8	
35.2	
13.8	
90.6	
46.2	

3.

Centimetres	Metres
	0.38
	0.88
	0.17
	0.95
	0.04
	0.09
	0.63
	0.53
	0.67
	0.82

4.

Centimetres	Metres
	0.475
	0.236
	0.606
	0.414
	0.264
	0.965
	0.353
	0.267
	0.424
	0.398

5.

Centimetres	Metres
11	
	0.63
	0.5
38	
37	
	0.79
46	
	0.03
78	
	0.68

6.

Centimetres	Metres
	0.41
18.4	
	0.348
38.2	
	0.571
	0.708
39.6	
10	
	0.018
77.4	

Converting Between Centimetres and Metres Answers

LO: I can convert between different units of metric measure

One builder only has measurements in centimetres and another only has measurements in metres.

Complete the tables below to help the builders by converting centimetres into metres and metres into centimetres.

1.

Centimetres	Metres
91	0.91
66	0.66
65	0.65
23	0.23
19	0.19
59	0.59
88	0.88
0	0
11	0.11
95	0.95

2.

Centimetres	Metres
17.8	0.178
6.3	0.063
46	0.46
54.8	0.548
74.4	0.744
39.8	0.398
35.2	0.352
13.8	0.138
90.6	0.906
46.2	0.462

3.

Centimetres	Metres
38	0.38
88	0.88
17	0.17
95	0.95
4	0.04
9	0.09
63	0.63
53	0.53
67	0.67
82	0.82

4.

Centimetres	Metres
47.5	0.475
23.6	0.236
60.6	0.606
41.4	0.414
26.4	0.264
96.5	0.965
35.3	0.353
26.7	0.267
42.4	0.424
39.8	0.398

5.

Centimetres	Metres
11	0.11
63	0.63
50	0.5
38	0.38
37	0.37
79	0.79
46	0.46
3	0.03
78	0.78
68	0.68

6.

Centimetres	Metres
41	0.41
18.4	0.184
34.8	0.348
38.2	0.382
57.1	0.571
70.8	0.708
39.6	0.396
10	0.10
1.8	0.018
77.4	0.774