Centimeters and Millimeters

This ruler measures in centimeters. The numbers signify whole centimeters. All the shorter lines between those are for <i>millimeters</i> . The distance from one short line to the next line is <u>1 millimeter</u> . We write 1 mm. Millimeters are very tiny!					
Look at the ruler: there are 10 millimeters in each centimeter.					
Measuring lines: First see how many whole centimeters long the line is. Then count how many little millimeter-lines beyond that it reaches. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 This line is 2 cm 3 mm long. At the same time, it is 23 mm long. Why? Each centimeter is 10 mm, so 2 cm is 20 mm. That means 2 cm 3 mm makes 23 mm in total.					
This line is 4 cm 8 mm long. At the same time, it is 48 mm long.					
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1. Measure the lines using the ruler, first in whole centimeters and millimeters. Then write their lengths using millimeters only.

	a	cm	mm =	mm	1	
1 2 3	4 5	4 milioni 6 7	, 1000 - 100 1000 - 1000 - 100	10 11 12	2 13 14	
			b	cm	_ mm =	mm
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	2	3	4	Э	0	1	0	9	10	11	12	13	14
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1	2	3	4	5	6	7	8	9	10	11	12	13	14
	_ cm _		mr	n =			mm						
1	2	3	4	5	6	7	8	9	10	11	12	13	14
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	_ • • • • •												
. Draw]	lines	using	a rule	er.									
a. 7 cn	n 8 m	m											
. 10	_												
b. 10 c	em 5 r	nm											
c. 14 n	nm												
d. 55 r	nm												
e. 126	mm												
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3. Measure items you can find at home, using a centimeter-millimeter ruler. If the item is not exactly as long as the markers on the ruler, choose the nearest mark.

Item	Length

4. Change between centimeters and millimeters.

а.	b.	с.
1 cm = mm	1 cm 1 mm = 11 mm	4 cm 5 mm = mm
2 cm = mm	1 cm 2 mm = mm	2 cm 5 mm = mm
5 cm = mm	1 cm 8 mm = mm	7 cm 8 mm = mm
8 cm = mm	2 cm 3 mm = mm	10 cm 4 mm = mm

5. Change between millimeters and centimeters.

а.	b.	с.
70 mm = cm	12 mm = cm mm	89 mm = cm mm
100 mm = cm	45 mm = cm mm	102 mm = cm mm

6. Measure the sides of this triangle in millimeters.

Side AB _____ mm

Side BC _____ mm

Side CA _____ mm



Sample worksheet from www.mathmammoth.com

7. Find the perimeter of the triangle in the previous exercise.



a. 1 cm 5 mm + 5 mm	b. 28 mm + 7 cm
c. 5 mm + 5 cm 8 mm	d. 2 cm 4 mm + 4 cm 5 mm
e. 52 mm + 2 cm 4 mm	f. 6 cm + 8 mm + 17 mm
g. 9 mm + 17 mm + 2 cm	h. 139 mm + 50 cm + 2 mm

Sample worksheet from www.mathmammoth.com