Name	Date	Period
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Worksheet: Measuring Length with the Metric System COORDINATED SCIENCE

Directions: Answer the following questions using the notes, textbook, and conversion chart below for resource.

	Distance	•
1 inch	= 2.54 centimeters	= 25.4 millimeters
1 foot	= 0.305 meter	= 30.48 centimeters
1 yard	= 0.9144 meter	
1 mile	= 1.61 kilometers	= 5,280 feet
1 kilometer	= 1,000 meters	= 0.6214 mile
1 meter	= 100 centimeters	= 1,000 millimeters
1 meter	= 3.28 feet	
1 centimeter	= 0.3937 inch	= 10 millimeters
1 millimeter	= 0.039 inch	= 0.1 centimeter
1 micron	= 10 ⁻⁴ centimeter	= 10 ⁶ meter
10 ⁻⁶ meter	= 1 micrometer	

1. Which is longer ? (circle your choice for each one	1.	Which is lo	nger? (circle	your choice	for each one
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- a. 1 mile or 1 kilometer b. 1 yard or 1 meter c. 1 inch or 1 centimeter

- 2. Complete each statement.
- a. ! Mile = km b. 1 yard = m c. 1 inch = cm

- 3. What does each unit represent?
- (a) mm = _____
- (b) m = _____
- (c) cm = _____
- (d) km = ____

- 4. Complete each statement

- d. 1 km = _____ m e. 1 m = ____ cm f. 1 m = ____ mm
- g. 1 cm = mm
- 5. The basic unit of **length** in the metric system is the _____ and is represented by a lowercase ____.
- 6. Which measurement is the largest? Circle your answer for each pair.
- a. 14 mm or 1 cm
- b. 145 m or 145 km c. 334 m or 1 km

- d. 3.4 cm or 30 mm
- e. 1 m or 990 cm f. 10 km or 1000 cm

7. Circle	e the BEST n	netric unit f	for each.						
a. The I	ength of an e	yelash	mm	ст	m	km			
b. The h	neight of a fla	gpole	mm	ст	m	km			
c. The l	ength of a str	and of spag	ghetti	mm	ст	m	km		
d. The o	distance from	Los Angele	es to San	Diego.	m	m d	cm	m k	m
8. Use t	the <i>ruler and</i>	line below	to answe	er the que	estions				
		CANADADA CANADA CANADADA CANADA CANAD	Antonomia Proposition Proposition Proposition	CONTRACTOR DESCRIPTION OF THE PROPERTY OF T		And Andrewson		Research	
	0 cm	1	-	2		3		d	
b. What c. What HINT: F	t is the length is the length Round to the ruler and	of the line i of the line t nearest cen	in millime to the nea timeter –	eters? erest cer no decin	nals.		C descriptions of the contraction of the contractio	m	
	O cm	1				3		d	
a. What	t is the length	of the line i	in centim	eters? _		_cm			
b. What	t is the length	of the line i	in millime	eters? _		mm			
c. What	is the length	of the line t	to the nea	rest cer	ntimete	er?	c	m	
10. Wha	at is the main	advantage	using the	metric s	system	in scien	ice?		