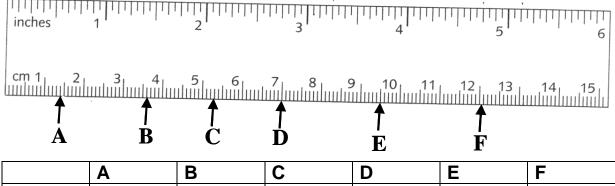


GRADE 10 ESSENTIAL UNIT C – MEASUREMENT READ RULER WORKSHEET

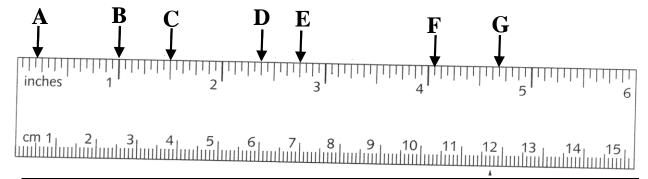
Name: _____ Date: _____

1. Determine the measurements indicated on this metric ruler:



	Α	В	С	D	Е	F
cm						
mm						

2. Determine the indicated measurements on the Inch Ruler below to the indicated precision in the table:



	Α	В	С	D	Ε	F	G
Nearest 1/16 th "							
Nearest 1/8 th "							

Gr10Ess_C_wksht1.docx

Revised:200903

Total:



	m¶	m =
outside	ur boss asked you to measure the p) of this rectangle 'mnpq' in units of ine the length of each side and the le.	perimeter (distance around the cm as accurately as you can.
		mm: in:
C.		cm:
b.		cm: mm: in:
		mm: in:



5. Your friend asks you to measure the perimeter of this rectangle \downarrow in inches (to the nearest $1/8^{th}$ of an inch precision) so she can go buy some gold thread to put around the outside. Determine the length of each side *and* the total perimeter around the rectangle.

	m¶	
q¶		n¶
	n¶	
	P¶	

Inches $(1/8^{th})$ m =
n =
p =
q =

Total	:

6. Measure the distance around your head in inches and in cm to the best accuracy you can.

Distance:	inches	cm
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7. Measure the dimensions of your classroom desk in the old Imperial System (US System) and in the proper Metric System (SI: Système International) to the best accuracy you can.

	Length	Width	Height
cm			
metres			
inches			
ft & in	ftin	ftin	ftin

8.	'Estimate'	(guess) how far it is to \$	St. Matthews	Ave from the class.	Use
wha	tever unit	you think is appropriate.	Estimate:		

9.	Estima	ite (guess)	how far it is to th	e west pei	rimeter highway fro	om the
scho	ool.	Estimate:				
Che	ck vou	answer on	google maps or v	whatever	Actual distance:	



Here are *most* of the answers

Of course, you are expected to have figured out how to get the answer

[Does your phone have the measuring tape on it? Apple does]

1. A: 1.4 cm; 14 mm

B: 3.6 cm; 36 mm

C: 5.3 cm; 53 mm

D: 7.0 cm; 70 mm E:

F٠

- 2. A: 3/16th to the nearest sixteenth precision; 1/8th *or* 1/4th to the nearest eighth (you are asked to measure to the closest eighth tick mark, you could go left to 1/8th or right to 1/4th your choice! [you do know that 2/16th is the same as 1/8th? And that 4/16th is the same as 1/4th?]
- B. 1 in. [no bout adout it! lol]
- C. 1 ½ inch (to both 1/8th and 1/16th precision)
- D. 2 and 3/8 inch (you could call it 2 and 6/16^{ths} but 6/16th is really simply 3/8th).
- E. F: G:
- 3. Caution: Anytime you read a ruler there is bound to be some error give or take one tick mark depending on your vision, how well you line up the ruler, etc.
- 3a. I read 9.9 cm; 99 mm; 3 and 7/8th in (you may be one tick mark different?)
- 3b. 6.6 cm, 66 mm, 2 and 5/8th inches
- 3c. 2.8 cm; 28 mm, 1 and 1/8th inch
- *Another caution: Photocopiers tend to reduce images by up to 1% sometimes.
- 4. Sides m and p are 10.4 cm (ie:104 mm), sides n and q are 5.2 cm (ie:52 mm). Adding the sides we have a total perimeter of **31.2** cm (312 mm). But your side measures may be give or take (ie: +/-) 0.1 cm depending on your eyeball and how well you line up the ruler. So your *measured* perimeter could be anywhere between 30.8 and 31.6 depending on how well you measured.
- 5. Sides m and p are 4 and $1/8^{th}$, sides n and q are either 2 or 2 $1/8^{th}$ depending on how you measured.

Adding the sides we have a total perimeter of 12 and 4/8th which of course is really 12 1/2th inch. You should have exactly the same.

- 6. Most adult heads are 22 to 23 inches? ~ 56 cm or so.
- 7. :[Blank]
- 8. 100 maybe 120 m? to St. Mathews? (Like a football field ish?)
- 9. maybe 8 km or so? [I cheated and eyeballed it on google maps!]