Apprenticeship Math 12

ASSIGNMENT: Measurement Review (part 2)

Name: _____

1. Match the following terms with the best definition:

____ accuracy

A. the margin of error of a measurement

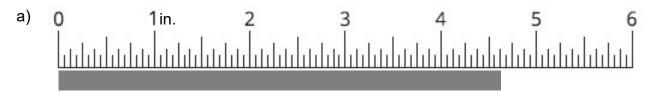
____ precision

B. how close a measured value is to the true value

uncertainty

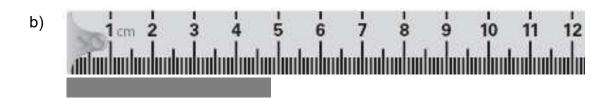
C. the smallest unit of measurement on the measuring device being used

2. For each image, state the precision of the measuring device and determine the length of the item, including its uncertainty.



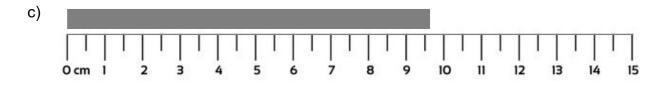
precision: _____

length: _____ ± ____



precision: _____

length: _____ ± ____



precision:

length: _____ ± ____

3.	48.302 mm. Write the measurement Indy would re	easuring the span of a coupling. The coupling has an actual length of m . Write the measurement Indy would record, including the measurement sy, if he measured the coupling with the following tools.	
	a) A meter stick marked in centimeters	±	
	b) A tape measure marked in millimeters	±	
	c) A digital caliper with precision of 0.02 mm	±	
4.	Jacob went fishing and caught three salmon. He we found them to weigh 9.3 kg, 4.7 kg, and 8.4 kg.	eighed the fish on a scale, and	
	a) What is the precision of the scale?		
	b) What is the uncertainty for each of the fish weigh	nts?	
	c) What is the combined weight of the three fish, in	cluding uncertainty?	
		±	
	d) What is the maximum combined weight of the th	ree fish?	
	d) What is the maximum combined weight of the the) What is the minimum combined weight of the thr		