Warmup / Review

JAN 2016

- 1. Refer to the diagram of a speedometer.
- A) State the precision of the speedometer.
- B) State the uncertainty of the speedometer

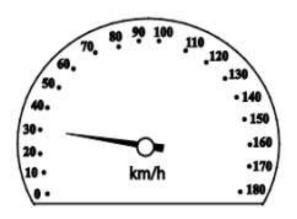
ANS: A) 5 km/h B) ± 2.5 km/h



- 3. Jill buys a roll of wallpaper. She uses a measuring device with a precision of 1 cm to measure and cut a 95 cm piece.
 - A) State the maximum length of the cut piece of wallpaper.
 - B) State the minimum length of the cut piece of wallpaper.

ANS: Max 95.5 cm, Min 94.5 cm

8. The speed limit in a school zone is 30 km/h. Evan's speedometer reads 30 km/h. Explain why Evan may be pulled over for exceeding the speed limit using one of the following concepts: accuracy, tolerance, uncertainty, or precision.



Ans: – Evan's speedometer could be inaccurate. – The speedometer's reading has an uncertainty of 5 km/hr. – The officer's radar instrument may not be calibrated accurately. – The officer's radar instrument may have a very low tolerance for speeding (e.g., 30km/ hr $^{+4 \text{ km/hr}}_{-0 \text{ km/hr}}$)

Jan 2013

 List two (2) types of additional or one-time costs to consider when initially purchasing a home. Do not include the down payment or mortgage payment. Explain these costs.

Various answers

utility service charges, interest adjustment, property tax adjustment, homeowner insurance adjustment, land transfer tax, moving, decorating, appliances, immediate repairs, furniture, property survey, home inspection fee, lawyer/legal fees, appraisal fee, mortgage insurance

- 2. Jared is moving away from home and must decide where to live. There are various benefits to owning a house or renting a property. State two (2) benefits of owning a house and two (2) benefits of renting a property. You may choose from the following list:
 - equity
 - no maintenance costs
 - lower insurance cost
 - easier to renovate
 - no property taxes
 - acts as an investment

Benefits of owning a house	Benefits of renting a property
1.	1.
2.	2.

Various answers

- equity- easier to renovate- acts as an investment
- no maintenance costs- lower insurance cost- no property tax (??)

- Juan's property has a total assessed value of \$150 000. The portioned percentage on his property is 45%. [FYI: It is actually 40% presently in Manitoba]
 - A) Calculate the portioned assessment of the property. (1 Mark)
 - B) The municipal tax rate is 12.5 mills. The amount of school division tax due is \$1 451.25. The provincial tax credit this year is \$775. Calculate Juan's total property tax bill for this year. (3 Marks)

The Statement and Demand for Taxes below is provided for rough work only. All calculations and answers must appear here:

- A company wishes to advertise a new type of breakfast cereal by sending out small samples through the mail to potential customers. There is a 7% chance that a potential customer will like the cereal and buy a full box for \$6.00.
 - A) Calculate the expected value for the company if the samples cost \$0.40 each to produce and distribute. (3 marks)
 - B) Justify whether the company should try this form of advertising based on your answer in Part A (1 Mark)