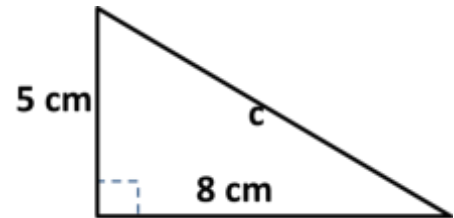


Due Monday 13:00

Instructions: These are the general instructions you will have for all quizzes, tests, and the final exam.

- You are always allowed a single page double-sided 8.5" X 11" 'cheat sheet' for all quizzes, tests, & the final exam
- **Round** decimal answers to nearest 0.01 or as indicated
- Show **Units**
- **Show work** for best mark. No marks for just an answer!
It ensures you are following correct steps
It enables teacher to give part marks knowing you understand the idea
It enables you to go back and readily check calculations
- Each individual question is worth two marks
- This is a **collaborative** quiz, open book, take-home, feel free to collaborate with other classmates.

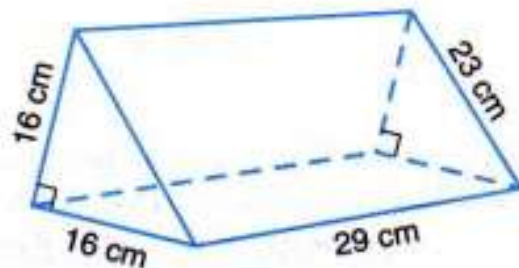
1. Calculate the length of side **c**.
[Grade 10]



2. Determine the **Surface Area** and the **Volume** of the triangular prism.

SA : _____

VOL : _____



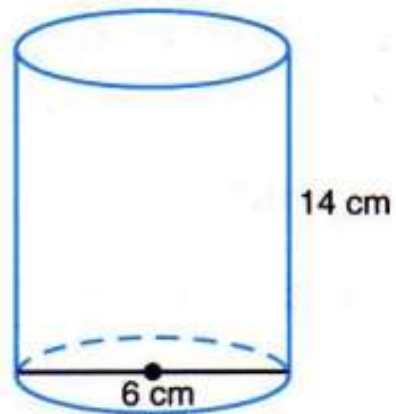
3. Karen borrows \$3,500 for 5 years. Her annual interest rate is 8.5% APR [Annual Percentage Rate].

- a. what amount would she pay back at the very end of the term of the loan if it was **simple interest**?
- b. what amount would she pay back at the very end of the term of the loan if it was **compound interest** *compounded monthly*?
- c. what amount would she have paid back total if she had paid it back with regular **monthly payments** (use your coloured loan tables)

4. Determine the total Surface Area and the Volume of this right cylinder.

SA : _____

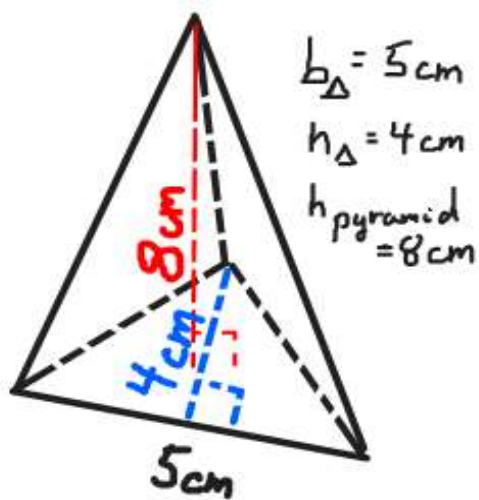
VOL : _____



5. If Mike borrows \$400 from a payday loan company for 2 months on a **simple interest loan**, and pays back \$440. What annual percentage rate (APR) did he pay?

6. If five pizzas and two cokes cost a total of \$76.50 but each coke cost \$2. How much does one pizza cost?

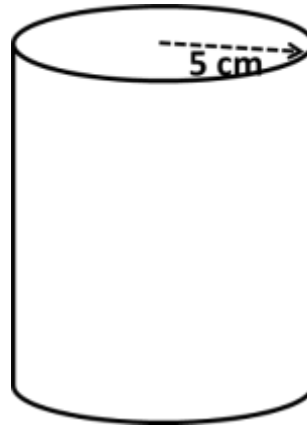
7. Determine the Volume of the Triangular Pyramid



BONUSES (2 mark each)

1. The volume of this cylinder is one litre (ie: $1,000 \text{ cm}^3$)

Calculate the height, h , of the cylinder.



2. Determine the sum (ie: add them all up) of the whole counting numbers from 1 to 49.

3. Mike Miser is saving up for a new game. He saves \$2 the first week. Each week after that he saves twice as much as he saved the week before. If this pattern continues, how much will he have saved in 6 weeks?

4. Draw me a picture of a cute puppy inside a pentagonal prism