

# ALBERTA DISTANCE LEARNING CENTRE

## Mathematics 10-3

MAT1793

### Unit D: Geometry Chapter 7 Lesson 3

#### Student's Questions and Comments

#### FOR STUDENT USE ONLY

Student Name:

\_\_\_\_\_

#### FOR ADLC USE ONLY

Assigned to

\_\_\_\_\_

Marked by

\_\_\_\_\_

Date received

\_\_\_\_\_

#### Summary

	Marks Earned	Total Possible Marks	Percent
Lesson 3		19	

Teacher's Comments:

\_\_\_\_\_  
Teacher's Signature

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## Lesson Assignment

This assignment includes short answer questions. Be sure to show all necessary work for short answer questions. You may ask for clarification from your teacher, but you will not be given the answer.

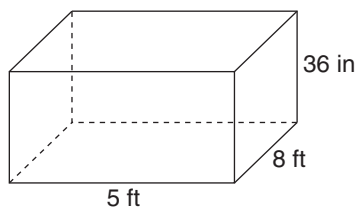
### Lesson 3

Include a **formula** as part of your work where applicable.

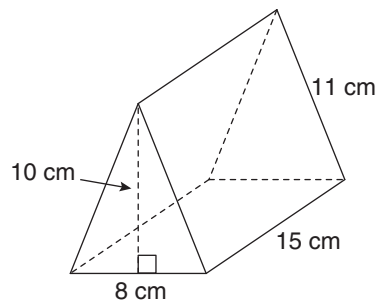
3

1. Find the surface area of the rectangular prism shown, to the nearest square foot.

**Hint:** 12 in = 1 ft



- ③ 2. Jackson is wrapping a birthday gift that is in the shape of a triangular prism, as shown in the diagram.

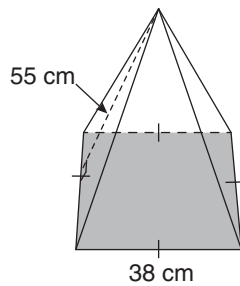


Determine the minimum amount of wrapping paper Jackson will need.

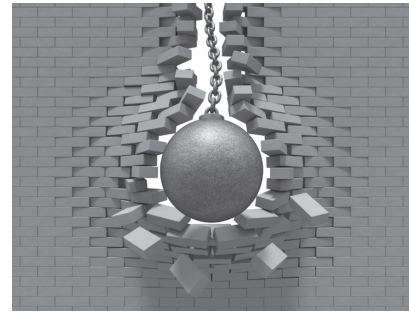
3. Cynthia is making homemade hand lotion to sell at the local market. She packages the lotion in a cylindrical bottle. She is also making labels to put on the bottles. Each bottle is 5 in tall and has a diameter of 1.5 in. Determine the size of the label needed to cover the entire bottle, with the exception of the top and bottom of the bottle.



4. Determine the surface area of the pyramid shown.

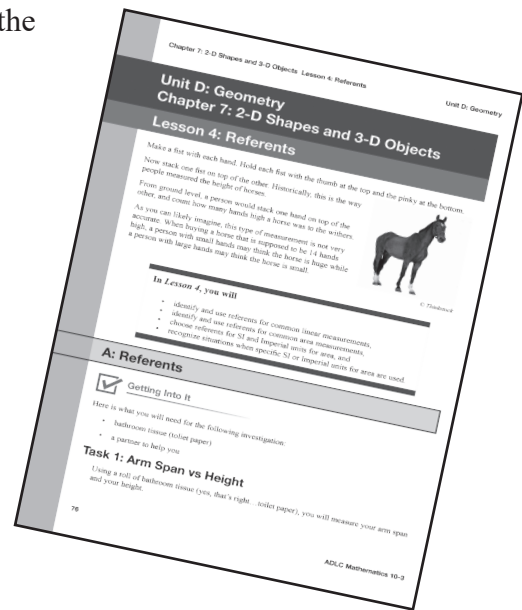


- ④ 5. A 4 000 pound wrecking ball has a diameter of 29 in. Determine the surface area of the wrecking ball, to the nearest tenth of a square foot.  
Hint:  $(12)^2 \text{ in}^2 = 1 \text{ ft}^2$



- ③ 6. Determine the surface area of a cone with a diameter of 10.7 cm and a slant height of 22.3 cm.

You have completed *Lesson 3 Assignment*. Please return to the *Module* and continue your exploration with *Lesson 4*.



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