

# ALBERTA DISTANCE LEARNING CENTRE

## Mathematics 10-3

MAT1793

### Unit D: Geometry Chapter 7 Lesson 2

#### Student's Questions and Comments

#### FOR STUDENT USE ONLY

Student Name:

\_\_\_\_\_

#### FOR ADLC USE ONLY

Assigned to

\_\_\_\_\_

Marked by

\_\_\_\_\_

Date received

\_\_\_\_\_

#### Summary

|          | Marks<br>Earned | Total<br>Possible<br>Marks | Percent |
|----------|-----------------|----------------------------|---------|
| Lesson 2 |                 | 39                         |         |

Teacher's Comments:

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

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Workbook 7

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## Lesson Assignment

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

### Lesson 2

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

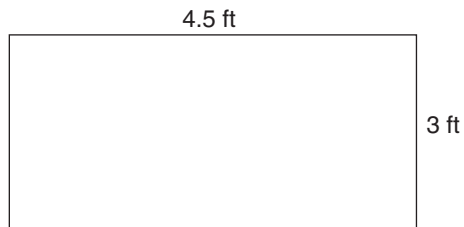
②

1. For the following, indicate true (T) or false (F).

- \_\_\_\_\_ a. Area is the measure of the size of a three-dimensional object.
- \_\_\_\_\_ b. A common unit for area is  $\text{m}^3$ .
- \_\_\_\_\_ c. If both dimensions on a rectangle are doubled, the area is four times as large as the area of the rectangle with the original dimensions.
- \_\_\_\_\_ d. When calculating area, it is necessary to make sure that all measurements are in the same unit.

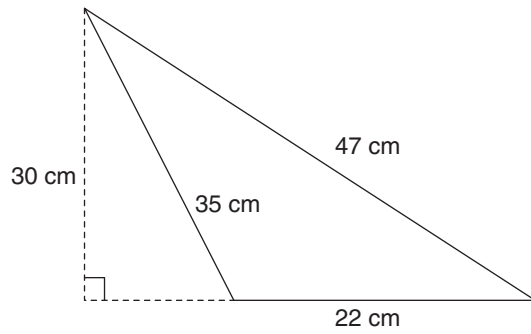
②

2. Determine the area of the rectangle shown.



- ④ 3. Kathy wants to paint two walls in her bedroom. The walls measure 3 m by 3 m. She wants to put 2 coats of paint on each of the walls. If a can of paint covers  $32.5 \text{ m}^2$ , how many cans will Kathy need?
- ② 4. The area of a square is  $53.3 \text{ cm}^2$ . Find the side length, to the nearest tenth of a centimetre.

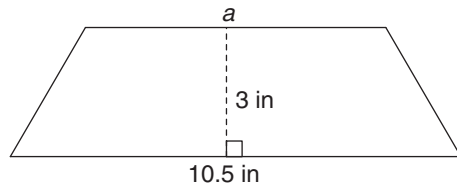
- ② 5. Determine the area of the triangle shown.



- ③ 6. The area of a triangle is  $12.6 \text{ in}^2$ . Find the height of the triangle if the base is 3.5 in.

- ③ 7. Determine the area of a circle with a diameter of 3.6 m.
- ③ 8. A circle has an area of  $81.7 \text{ cm}^2$ . Find the diameter, to the nearest tenth of a centimetre.

- ③ 9. The area of the trapezoid shown is  $26.25 \text{ in}^2$ . Determine the missing side length,  $a$ .



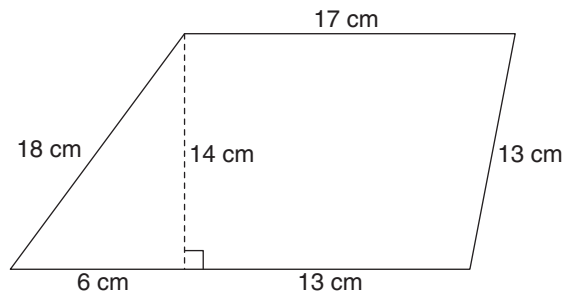
- ⑤ 10. Mike and three friends are attending a Kiss concert. They are making a banner comprised of four parts, each presenting the individual letters of the band's name. They have already made the K, but the remaining letters need to be made. They need to calculate the area of each remaining letter so that they purchase enough material.



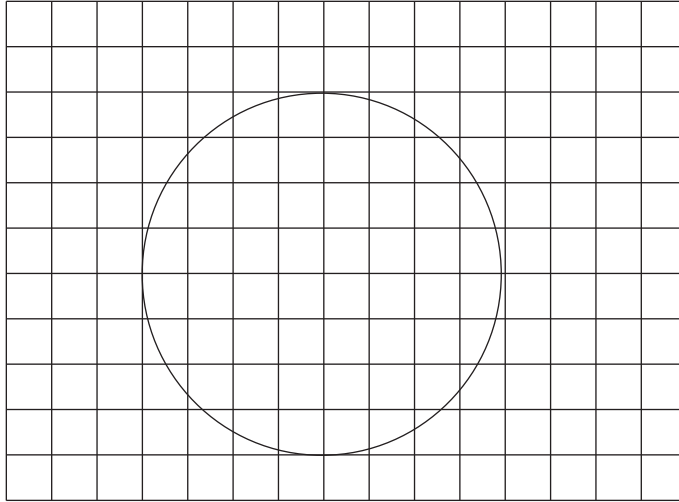
The “I” is 2.5 ft tall and 1 ft wide. The top of each “S” has a height of 1 ft and the bottom of each “S” has a height of 1.5 ft. Each part of each “S” is 1 ft wide. How much material will they need to make the three letters?



- ⑤ 11. Determine the area of the composite figure shown.



12. The circle shown is drawn on 1 cm grid paper.



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- a. Explain how to overestimate the area of the circle. What is an overestimation of the area of the circle?

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②

- b. Explain how to underestimate the area of the circle. What is an under estimation of the area of the circle?

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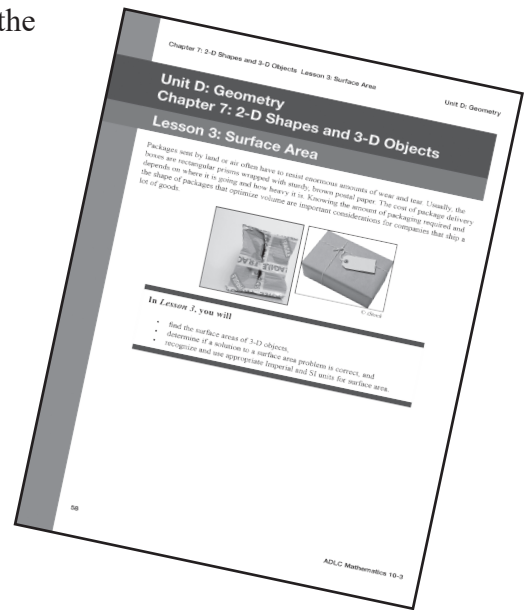
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- ① c. Estimate the area of the circle, to the nearest square centimetre.

You have completed *Lesson 2 Assignment*. Please return to the *Module* and continue your exploration with *Lesson 3*.





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