

NAME _____

Module 13 Perimeter, Area, and Volume

Lesson 2 Area

Lesson Objectives

- Establish and apply formulas to find the area of triangles and different types of quadrilaterals.
- Develop and use strategies to solve problems involving the area of quadrilaterals and the area of a circle.
- Demonstrate understanding of when to use linear units to describe perimeter and square units to describe area.
- Find different areas for a given perimeter and find different perimeters for a given area.

Subtopic 1 Area of Rectangles and Parallelograms

Area

The number of _____ or the amount of space in a region

Area of a _____

$$A = s^2$$

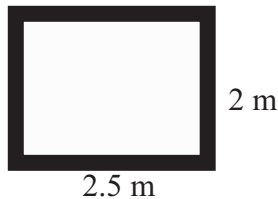
Area of a Rectangle

$$A = \underline{\hspace{2cm}}$$

Area of a Parallelogram

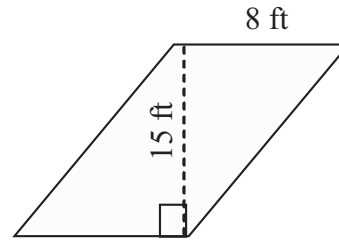
$$A = \underline{\hspace{2cm}}$$

- 1** Find the area of the window.



2

Find the area of the parallelogram where the base is eight feet and the height is 15 feet.

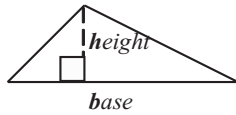


Subtopic 2

Area of Triangles, Trapezoids, and Circles

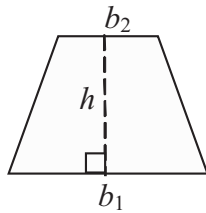
Area of a Triangle

$A = \underline{\hspace{2cm}}$



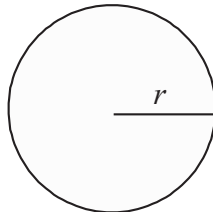
Area of a Trapezoid

$A = \frac{1}{2} (\underline{\hspace{2cm}})h$



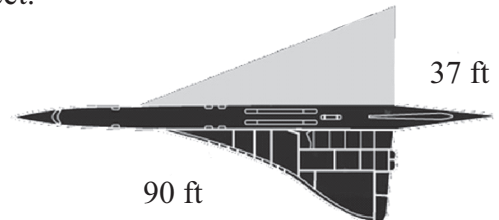
Area of a

$A = \underline{\hspace{2cm}}$



3

Find the area of the triangular wing of this plane which has a base of 90 feet and a height of 37 feet.



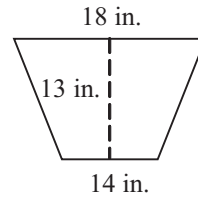
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4

A cafeteria tray is shaped like a trapezoid.
Find the area of the tray.



5

A circular swimming pool cover has an area of 452.16 square feet. Estimate the diameter of the swimming pool cover.



Subtopic 3**Find Different Areas for a Given Perimeter****6**

Luria bought an astro-cow. What is the smallest number of one-yard fencing sections she needs to enclose a rectangular pasture containing 36 square yards of astro-turf?

