

Grade 6 - Area of Triangles and Polygons - Test

Common Core 6.G.A.1 · maths-pdf.fr/en/

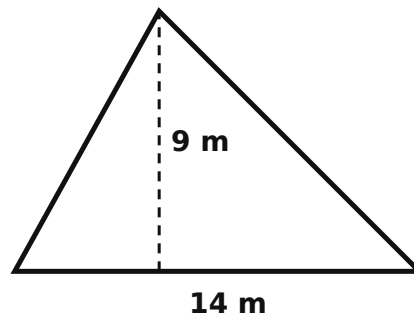
Name: _____ Class: _____ Date: ____/____/____

This 45-minute test has 9 questions worth 20 points. It covers the area of triangles, parallelograms, trapezoids, and composite shapes, including missing dimensions and real-world costs (Common Core 6.G.A.1). Show your work.

About this test

- Grade: Grade 6
- Chapter: Area of Triangles and Polygons
- Standards: 6.G.A.1
- Time: 45 minutes
- Total: 20 points

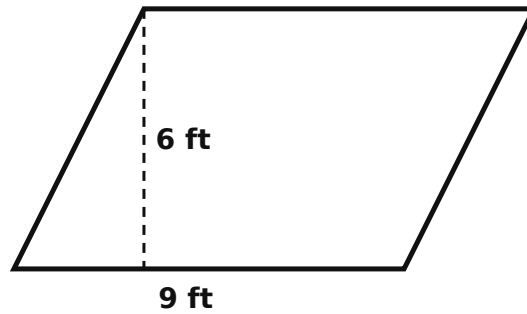
Question 1 - Triangle [2 pts]



A triangle.

Find the area of the triangle.

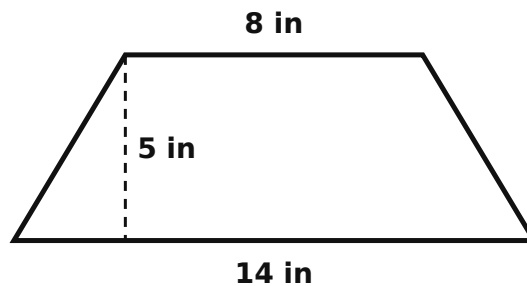
Question 2 - Parallelogram [2 pts]



A parallelogram.

Find the area of the parallelogram.

Question 3 - Trapezoid [2 pts]



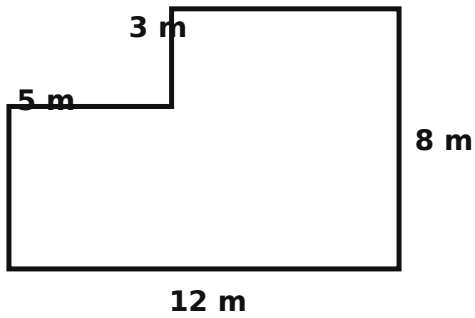
A trapezoid.

Find the area of the trapezoid.

Question 4 - Find a missing dimension [2 pts]

A triangle has an area of 36 square centimeters and a height of 9 centimeters. Find the base.

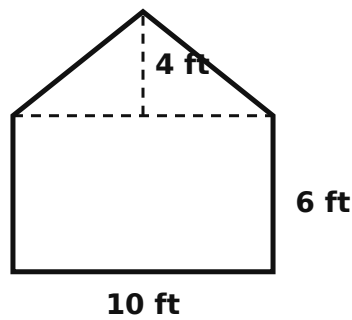
Question 5 - Composite shape [2 pts]



An L-shaped lot.

Find the area of the shape.

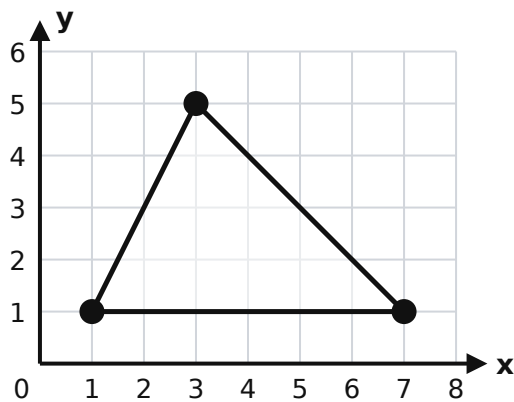
Question 6 - House front [2 pts]



A house front.

Find the area of the shape.

Question 7 - Coordinate triangle [2 pts]



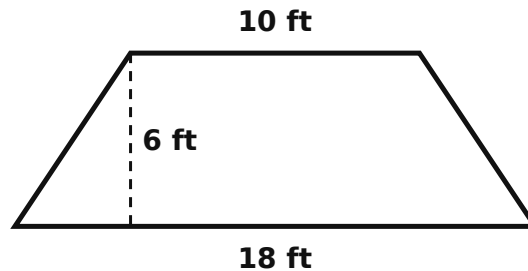
A triangle on a grid.

Find the area of the triangle with vertices (1, 1), (7, 1), and (3, 5).

Question 8 - Roof cost [3 pts]

A roof has two identical triangular sections. Each has a base of 20 feet and a height of 6 feet. Shingles cost \$2.50 per square foot. Find the total cost to cover both sections.

Question 9 - Garden plan [3 pts]



A garden.

Maya plants a trapezoid garden. Find its area. If one bag of mulch covers 14 square feet, find how many bags she needs.