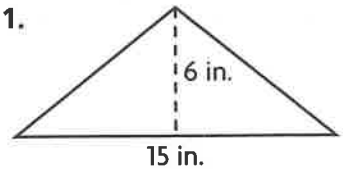
Name _____

Area of Triangles

Common Core **COMMON CORE STANDARD—6.G.A.1**
Solve real-world and mathematical problems involving area, surface area, and volume.

Find the area.

1.



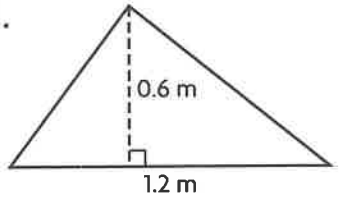
$A = \frac{1}{2}bh$

$A = \frac{1}{2} \times 15 \times 6$

$A = 45$

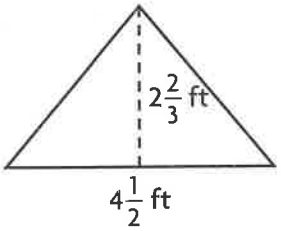
Area $= 45$ in.^{2}

2.



_____

3.



_____

Find the unknown measurement for the triangle.

4. $A = 0.225$ mi^2

$b = 0.6$ mi

$h =$ _____

_____

5. $A = 4.86$ yd^2

$b =$ _____

$h = 1.8$ yd

_____

6. $A = 63$ m^2

$b =$ _____

$h = 12$ m

_____

7. $A = 2.5$ km^2

$b = 5$ km

$h =$ _____

_____

Problem Solving Real World

8. Bayla draws a triangle with a base of 15 cm and a height of 8.5 cm. If she colors the space inside the triangle, what area does she color?

_____

9. Alicia is making a triangular sign for the school play. The area of the sign is 558 in.^{2}. The base of the triangle is 36 in. What is the height of the triangle?

_____

10. WRITE *Math* Describe how you would find how much grass seed is needed to cover a triangular plot of land.

_____

_____

Lesson Check (6.G.A.1, 6.EE.A.2c)

1. A triangular flag has an area of 187.5 square inches. The base of the flag measures 25 inches. How tall is the triangular flag?

2. A piece of stained glass in the shape of a right triangle has sides measuring 8 centimeters, 15 centimeters, and 17 centimeters. What is the area of the piece?

Spiral Review (6.EE.B.7, 6.EE.C.9, 6.G.A.1)

3. Tina bought a t-shirt and sandals. The total cost was $41.50. The t-shirt cost $8.95. The equation $8.95 + c = 41.50$ can be used to find the cost c in dollars of the sandals. How much did the sandals cost?

4. There are 37 paper clips in a box. Carmen places more paper clips in the box. Write an equation to show the total number of paper clips p in the box after Carmen places n more paper clips in the box.

5. Name another ordered pair that is on the graph of the equation represented by the table.

People in group, x	1	2	3	4
Total cost of ordering lunch special ($), y	6	12	18	24

6. Find the area of the triangle that divides the parallelogram in half.