Geometry Practice G.MG.A.3: Area 1
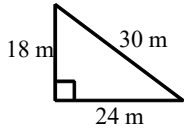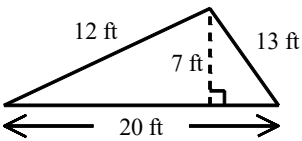
NAME:_____

1. Find the area of the triangle.

[A] 432 m^2 [B] 72 m^2 [C] 450 m^2 [D] 216 m^2

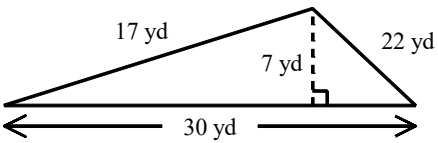Find the area of the triangle.

2.

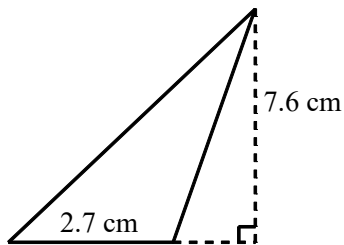[A] 70 ft^2 [B] 63 ft^2 [C] 140 ft^2 [D] 72 ft^2

3.

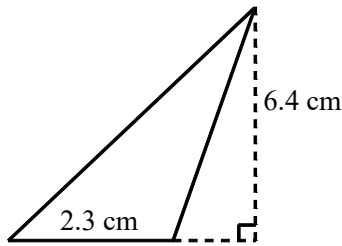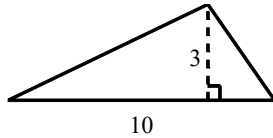[A] 105 yd^2 [B] 255 yd^2 [C] 29 yd^2 [D] 154 yd^2

Find the area:

4.

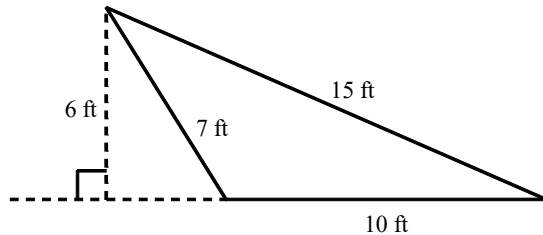[A] 20.52 cm^2 [B] 10.26 cm^2 [C] 20.6 cm^2 [D] 10.3 cm^2

Geometry Practice G.MG.A.3: Area 1

NAME:_____

Find the area:

5.

6.4 cm

2.3 cm

6. Find the area of this triangle. Dimensions are in feet.

3

10

7. Find the area of the triangle.

6 ft

7 ft

15 ft

10 ft

8. The length of the base of a right triangle is 4 inches and the height is 17 inches. Find the area of the right triangle.

9. The state of South Carolina is shaped somewhat like a triangle. It is 273 miles across the state and 219 miles from top to bottom. Estimate the area of South Carolina.

10. The function $A = 0.5bh$ describes the area of a triangle with base b and height h. Use any problem solving strategy to find the base and height of a triangle if the base and height are equal and the area is 200 cm^2.

11. Use any problem solving strategy to solve the following problem. A triangular garden has a base that is 4 feet shorter than the height. Write a polynomial to describe the area of the garden.

12. In a triangle, the base and corresponding height are in the ratio 2 : 5. The area is 20 m^2. Find the base and the corresponding height.

[1] D

[2] A

[3] A

[4] B

[5] 7.36 cm^2

[6] 15 ft^2

[7] 30 square feet

[8] 34 in.^{2}

[9] 30,000 mi^2

[10] 20 cm

[11] $0.5x^2 - 2x$

[12] base: 4 m; height: 10 m