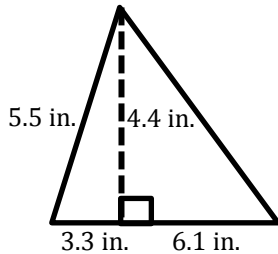


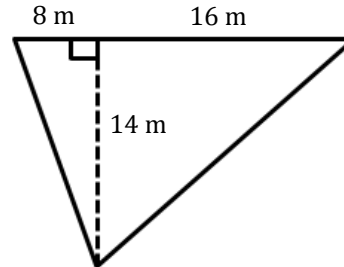
Problem Set

Calculate the area of each shape below. Figures are not drawn to scale.

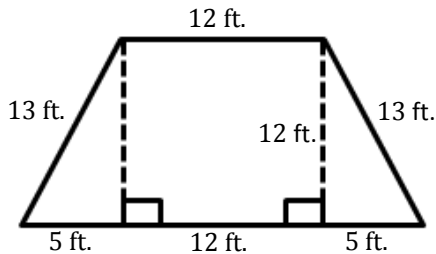
1.



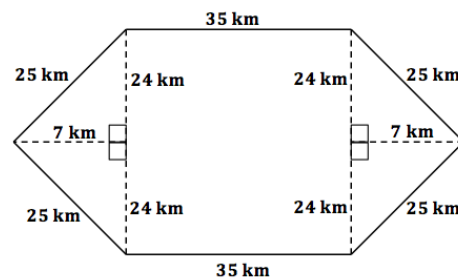
2.



3.

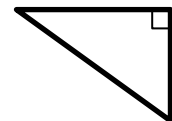


4.



5. Immanuel is building a fence to make an enclosed play area for his dog. The enclosed area will be in the shape of a triangle with a base of 48 m. and an altitude of 32 m. How much space does the dog have to play?

6. Chauncey is building a storage bench for his son's playroom. The storage bench will fit into the corner and against two walls to form a triangle. Chauncey wants to buy a triangular shaped cover for the bench.

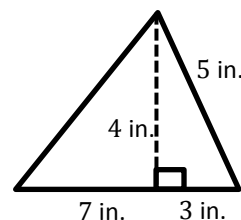


If the storage bench is $2\frac{1}{2}$ ft. along one wall and $4\frac{1}{4}$ ft. along the other wall, how big will the cover have to be to cover the entire bench?

Note: Figure is not to scale.

7. Examine the triangle to the right.

- Write an expression to show how you would calculate the area.
- Identify each part of your expression as it relates to the triangle.



8. The floor of a triangular room has an area of $32\frac{1}{2}$ sq. m. If the triangle's altitude is $7\frac{1}{2}$ m, write an equation to determine the length of the base, b , in meters. Then solve the equation.