

## Area & Perimeter

**Perimeter:** The distance around the outside of a figure. To find the perimeter, add the lengths of all its sides.

**Area:** The number of square units in a figure. To find area, use the following formulas based on the polygon that the shape is.

**Square:**  
Area = side<sup>2</sup>

**Rectangle:**  
Area = length(width)

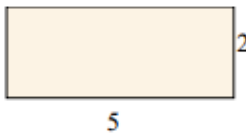
**Parallelogram:**  
Area = base(height)

**Triangle:**  
Area =  $\frac{1}{2}$ (base)(height)

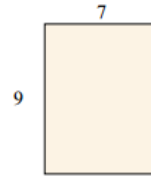
**Trapezoid:**  
Area =  $\frac{1}{2}$ (height)(base<sub>1</sub> + base<sub>2</sub>)

Find the perimeter of each figure.

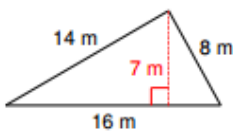
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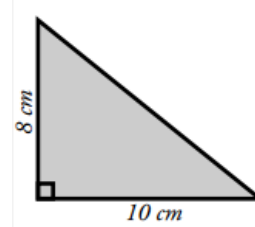
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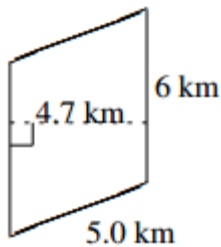
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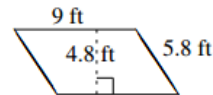
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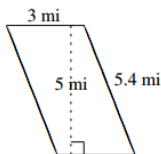
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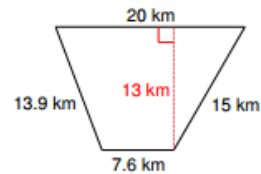
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7.

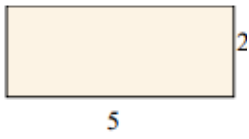


8.

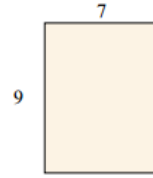


Find the area of each figure.

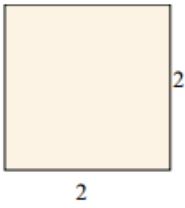
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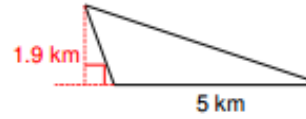
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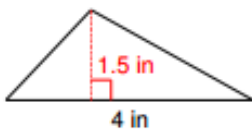
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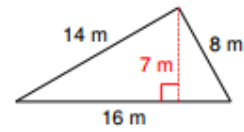
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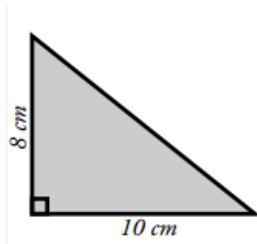
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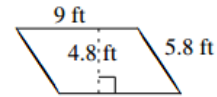
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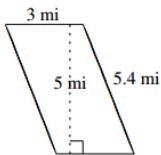
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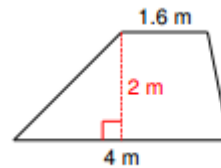
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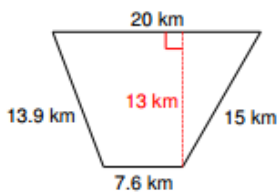
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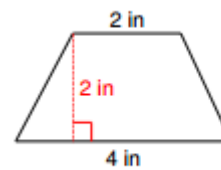
18.



19.

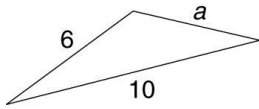


20.

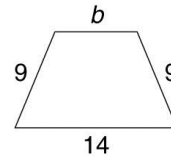


Find the missing measurement for each figure with the given perimeter.

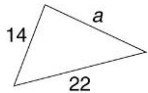
21. triangle with perimeter 21 units



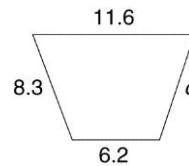
22. trapezoid with perimeter 39 units



23. triangle with perimeter 54 units

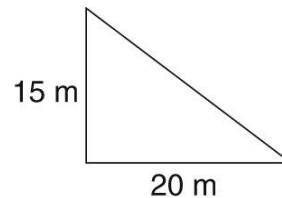


24. trapezoid with perimeter 34 units



25. A garden shaped like a right triangle has two sides that measure 15 meters and 20 meters. Susie wants to put a fence along the perimeter of the garden.

a. How long is the third side of the garden?



b. How many meters of fencing material does she need?

26. The two shortest sides of a pennant shaped like a right triangle measure 10 inches and 24 inches. Hank wants to put colored tape around the edge of the pennant. Find how many inches of tape Hank will need.