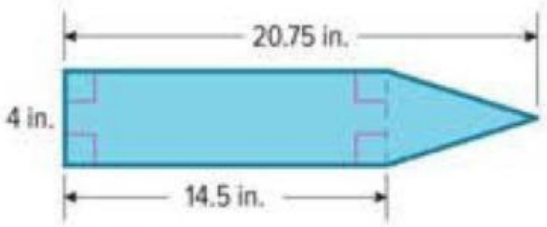
Area of Composite Figures

1. Ayanna is painting a sign made from a piece of reclaimed wood with the dimensions shown.

What is the area of the sign?



Area of rectangular part = in^2

Area of triangular part = in^2

Area of the sign = + = in^2

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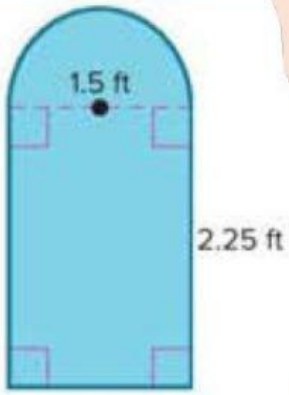
2. Find the area of the figure. Use 3.14 for π. Round to the nearest hundredth if necessary.



Area of semicircular part = ft^2

Area of rectangular part = ft^2

Area of the figure = + = ft^2

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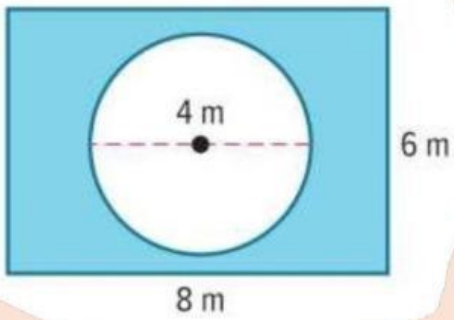
3. Use area formulas to find the area of a shaded region. First find the area of the entire figure. Then subtract to find the area of the shaded region.

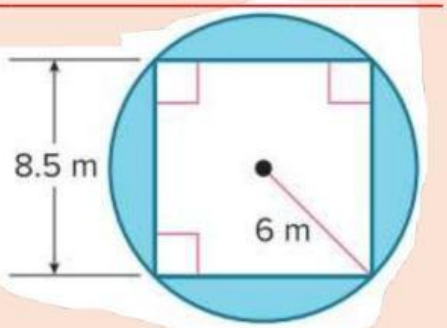


Area of rectangle = m^2

Area of circle = m^2

Area of Shaded part = = m^2

4. Find the area of the shaded region. Use 3.14 for π. Round to the nearest hundredth if necessary.



Area of the circle= m^2

Area of the square = m^2

Area of the shaded region = = m^2

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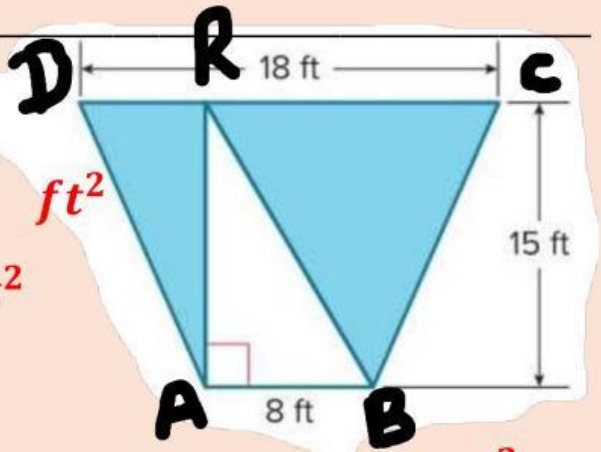
5. Find the area of the shaded region.



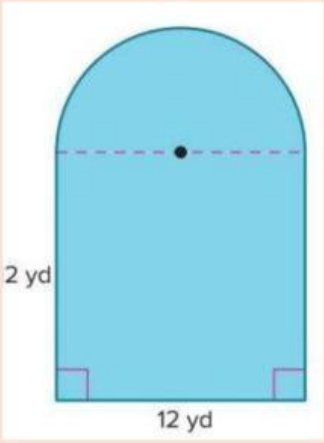
Area of the trapezium ABCD = ft^2

Area of the triangle ABR = ft^2

Area of the shaded region = = ft^2

Find the area of each figure. If necessary, use 3.14 for π and round to the nearest hundredth.

6.



Area of the semi-circle = yd^2

Area of the rectangle = yd^2

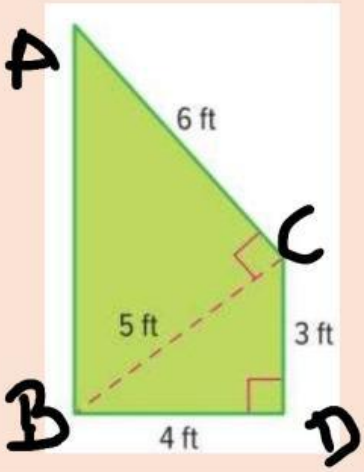
Combine area of the figure = = yd^2

7.

Area Δ ABC = ft^2

Area ΔBCD = ft^2

Area of the figure = = ft^2

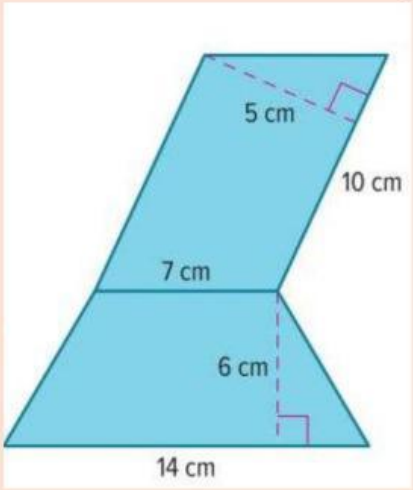


8.

Area of the parallelogram = cm^2

Area of the trapezium = cm^2

Area of the figure = = cm^2



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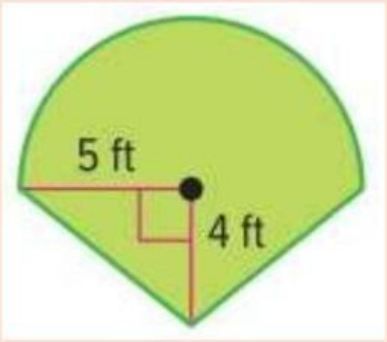
9. Area of semi-circular part = ft^2

Area of triangular part = ft^2

Area of the figure = = ft^2



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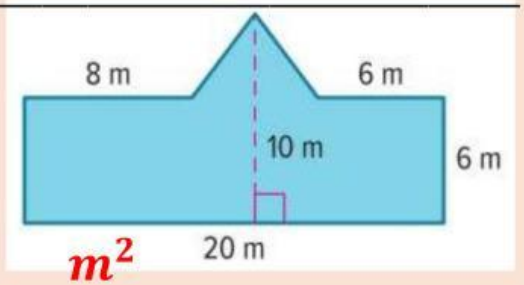
10. Area of the rectangle = m^2

Area of the Triangle = m^2

Area of the figure = = m^2



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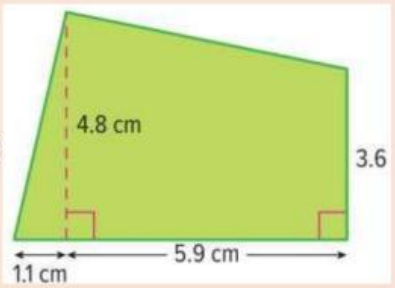
11. Area of the trapezium = m^2

Area of the Triangle = m^2

Area of the figure = = m^2



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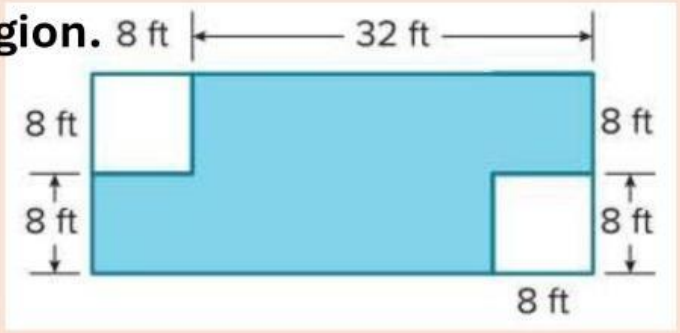
12. Find the area of shaded region.



Area of the rectangle = ft^2

Area of each square = ft^2

Area of shaded region = − − = ft^2

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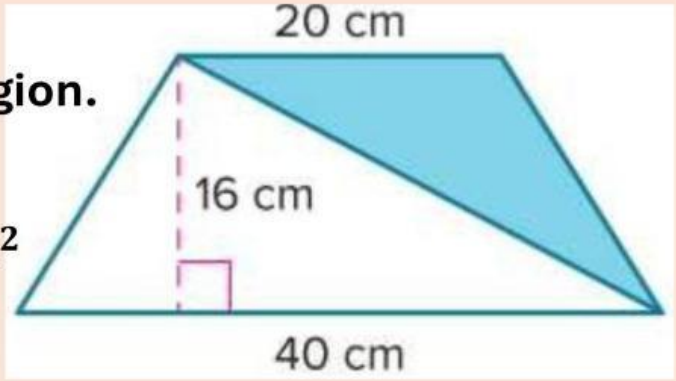
13. Find the area of shaded region.



Area of the shaded region = cm^2

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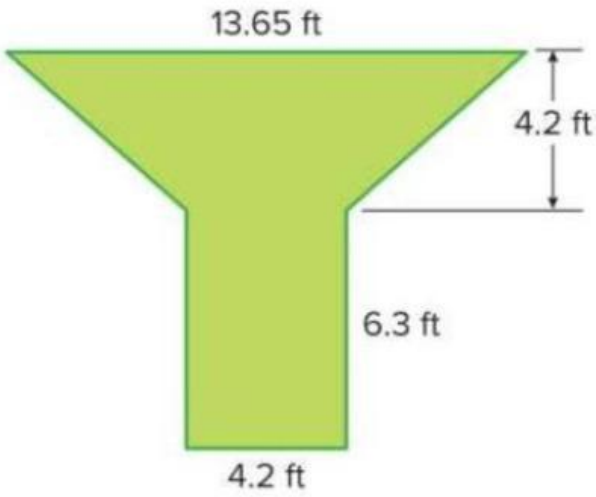
14. The Jamesons hired a landscaper to create the walkway shown.



If one case of decorative stone costs $25 and covers 6 square feet, how much will it cost to cover the walkway?

Area of the Trapezoid part = ft^2

Area of the rectangular part = ft^2

Area of the walkway = $= ft^2$

Number of case of decorative stones required= —— =

Cost to cover the walkway = $