

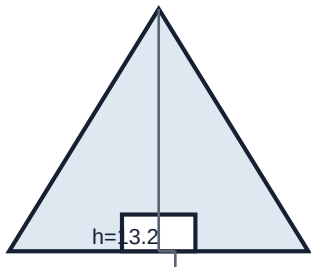
Math Sheet

Name _____ Score _____ / 9 Teacher _____ Date _____

Compound shapes area

Find each shaded area by adding joined regions or subtracting cutouts. Use full calculator pi and round only the final answer to the nearest tenth.

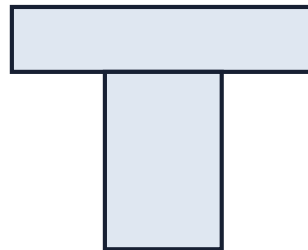
1.



base 16.3 in | height 13.2 in
notch width 4 in | notch height 2 in

Area: _____

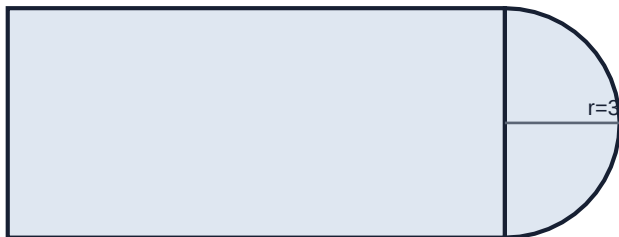
2.



stem width 5.4 yd | stem height 8.2 yd
cap width 14 yd | cap height 3 yd

Area: _____

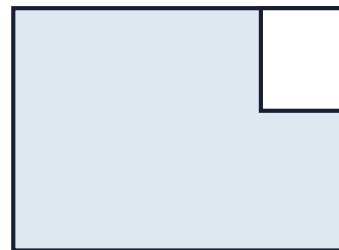
3.



width 13 cm | height 6 cm
radius 3 cm

Area: _____

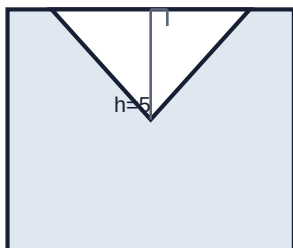
4.



width 19 m | height 13.7 m
Top arm 14 m | Right arm 7.9 m

Area: _____

5.



width 13 ft | height 11 ft
base 9 ft | triangle height 5 ft

Area: _____

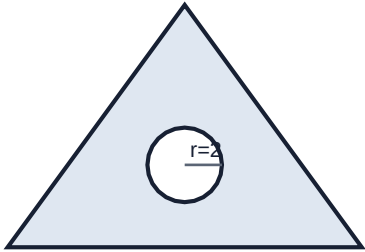
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Find each shaded area by adding joined regions or subtracting cutouts. Use full calculator pi and round only the final answer to the nearest tenth.

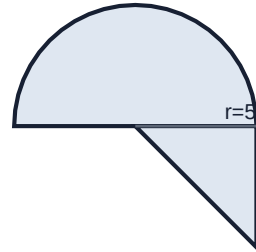
6.



base 19 ft | height 13 ft
radius 2 ft

Area: _____

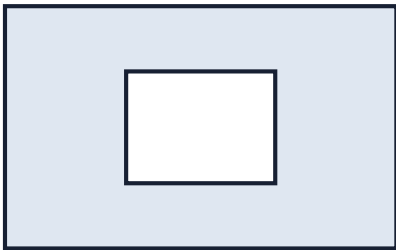
7.



radius 5 cm | base 5 cm
triangle height 5 cm

Area: _____

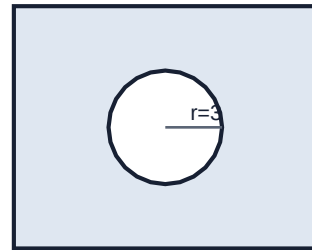
8.



width 21 yd | height 13 yd
inner width 8 yd | inner height 6 yd

Area: _____

9.



width 16 in | height 12.8 in
radius 3 in

Area: _____

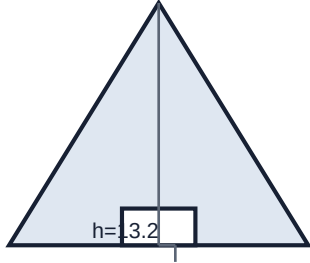
Math Sheet

Name _____ Score _____ / 9 Teacher _____ Date _____

Compound shapes area - Answer key

Find each shaded area by adding joined regions or subtracting cutouts. Use full calculator pi and round only the final answer to the nearest tenth.

1.



base 16.3 in | height 13.2 in
notch width 4 in | notch height 2 in

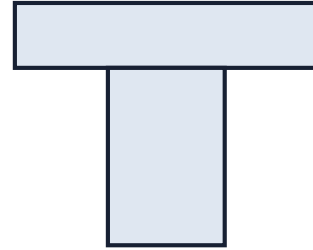
$$+ \text{triangle: } 16.3 \times 13.2 / 2 = 5379/50$$

$$- \text{rectangle-notch: } 4 \times 2 = 8$$

$$A = 4979/50 + 0 \times \pi$$

$$\mathbf{A \text{ approx. } 99.6 \text{ in}^2}$$

2.



stem width 5.4 yd | stem height 8.2 yd
cap width 14 yd | cap height 3 yd

$$+ \text{stem: } 5.4 \times 8.2 = 1107/25$$

$$+ \text{cap: } 14 \times 3 = 42$$

$$A = 2157/25 + 0 \times \pi$$

$$\mathbf{A \text{ approx. } 86.3 \text{ yd}^2}$$

3.



width 13 cm | height 6 cm
radius 3 cm

$$+ \text{rectangle: } 13 \times 6 = 78$$

$$+ \text{semicircle: } \pi \times 3^2 / 2 = 9/2 \times \pi$$

$$A = 78 + 9/2 \times \pi$$

$$\mathbf{A \text{ approx. } 92.1 \text{ cm}^2}$$

4.



width 19 m | height 13.7 m
Top arm 14 m | Right arm 7.9 m

$$\text{cut width} = 19 - 14 = 5$$

$$\text{cut height} = 13.7 - 7.9 = 5.8$$

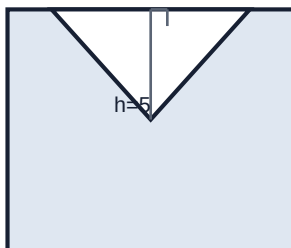
$$+ \text{outer: } 19 \times 13.7 = 2603/10$$

$$- \text{notch: } 5 \times 5.8 = 29$$

$$A = 2313/10 + 0 \times \pi$$

$$\mathbf{A \text{ approx. } 231.3 \text{ m}^2}$$

5.



width 13 ft | height 11 ft
base 9 ft | triangle height 5 ft

$$+ \text{rectangle: } 13 \times 11 = 143$$

$$- \text{triangle-cutout: } 9 \times 5 / 2 = 45/2$$

$$A = 241/2 + 0 \times \pi$$

$$\mathbf{A \text{ approx. } 120.5 \text{ ft}^2}$$

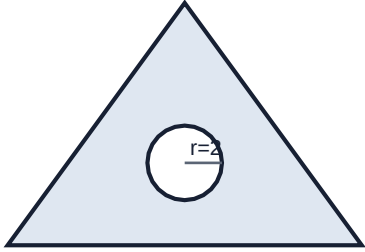
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Compound shapes area - Answer key

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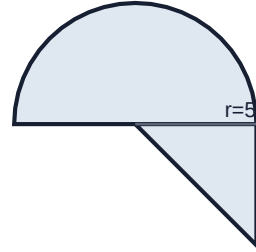
6.



base 19 ft | height 13 ft
radius 2 ft

$$\begin{aligned} &+ \text{triangle: } 19 \times 13 / 2 = 247 / 2 \\ &- \text{circle-hole: } \pi \times 2^2 = 4\pi \\ &A = 247 / 2 - 4\pi \\ &\mathbf{A \text{ approx. } 110.9 \text{ ft}^2} \end{aligned}$$

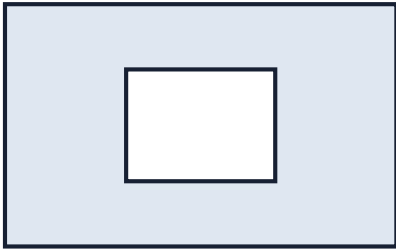
7.



radius 5 cm | base 5 cm
triangle height 5 cm

$$\begin{aligned} &+ \text{semicircle: } \pi \times 5^2 / 2 = 25 / 2 \pi \\ &+ \text{right-triangle: } 5 \times 5 / 2 = 25 / 2 \\ &A = 25 / 2 + 25 / 2 \pi \\ &\mathbf{A \text{ approx. } 51.8 \text{ cm}^2} \end{aligned}$$

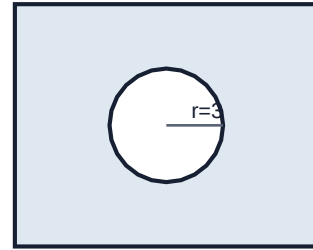
8.



width 21 yd | height 13 yd
inner width 8 yd | inner height 6 yd

$$\begin{aligned} &+ \text{outer: } 21 \times 13 = 273 \\ &- \text{inner: } 8 \times 6 = 48 \\ &A = 273 - 48 \\ &\mathbf{A \text{ approx. } 225.0 \text{ yd}^2} \end{aligned}$$

9.



width 16 in | height 12.8 in
radius 3 in

$$\begin{aligned} &+ \text{rectangle: } 16 \times 12.8 = 1024 / 5 \\ &- \text{circle-hole: } \pi \times 3^2 = 9\pi \\ &A = 1024 / 5 - 9\pi \\ &\mathbf{A \text{ approx. } 176.5 \text{ in}^2} \end{aligned}$$