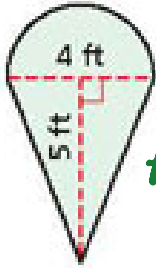


*these are answers only: You must show all work!!
 10.3
 Pg. 697-699 #3, 6, 10, 13-14, 18-19, 21, 33

(3, 10) Find the shaded area. Round to the nearest tenth, if necessary.

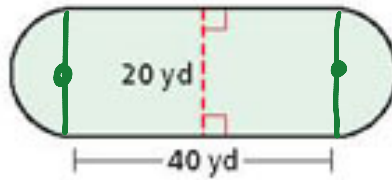
3.



$A = \Delta + \text{semi circle}$

$A \approx 16.3 \text{ ft}^2$

10.



$A = \text{rectangle} + \text{circle}$

$A \approx 1114.2 \text{ yd}^2$

6. **Interior Decorating** Barbara is getting carpet installed in her living room and hallway. The cost of installation is \$6 per square yard. What is the total cost of installing the carpet?

$A = \text{rectangle} - \text{stairs (rectangle)}$

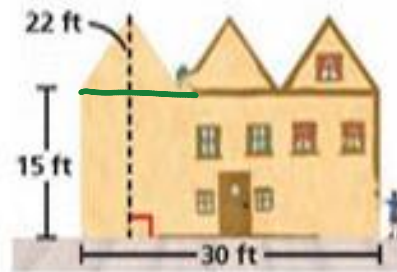
$\text{Area} * \$6 \approx \270



13. **Drama** Pat is painting a stage backdrop for a play. The paint he is using covers 90 square feet per quart. How many quarts of paint should Pat buy?

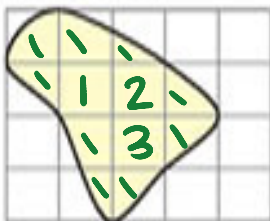
$A = \text{rectangle} + 3 \Delta$'s

$\text{Area} * 90 = 7 \text{ quarts}$



#14: Estimate the shaded region. The grid has squares with side lengths of 1 m.

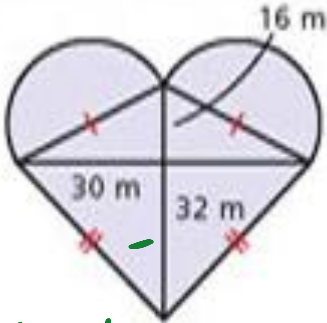
14.



$A \approx 7.5 \text{ m}^2$

(18-19) Find the area of each figure. Give your answer in terms of π

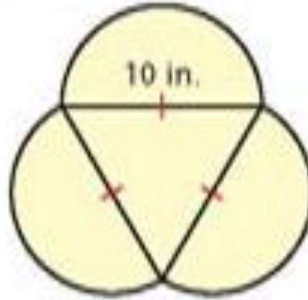
18.



$A = \text{circle} + \text{kite}$

$$A = (1440 + 289\pi) \text{ m}^2$$

19.



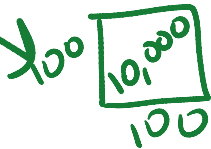
$(\frac{5^2\sqrt{3}}{4})$
 $A = \text{equil. } \Delta + \text{circle} + \text{semi circle}$

$$A = (25\sqrt{3} + \frac{75\pi}{2}) \text{ in}^2$$

21. **Geography** Use the grid on the map of Lake Superior to estimate the area of the surface of the lake. Each square on the grid has a side length of 100 miles.



22. **Critical Thinking** A trapezoid can be divided into a rectangle and two triangles. Show that the area formula for a trapezoid gives the same result as the sum of the areas of the rectangle and triangles.



$$10,000 * 3.5 = 35,000$$

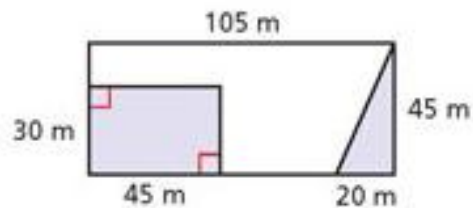
33. Find the area of the unshaded part of the rectangle.

(A) 1800 m²

(C) 2925 m²

(B) 2250 m²

(D) 4725 m²



$A = \text{Large rect.} - \text{shaded rectangle} - \text{triangle}$