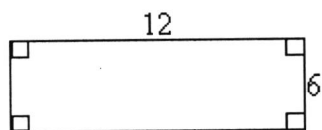


STATION 1

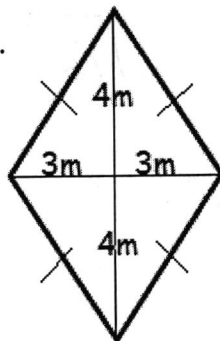
DO NOT WRITE ON THIS PAPER

Find the area of each...

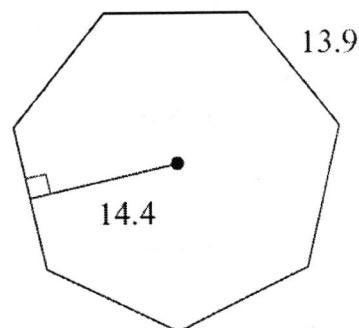
1.



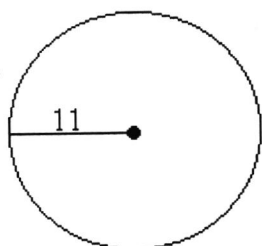
2.



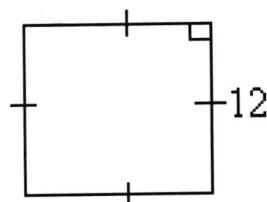
3. Regular Heptagon



4.



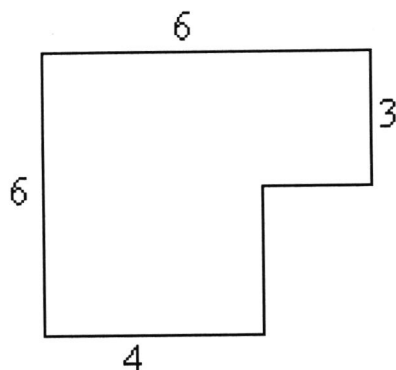
5.



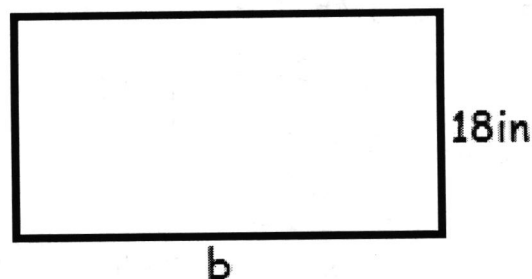
** don't forget units!*

6. What is the area of a triangle with a base of 12 ft and a height of 7ft?

7. Find the area:



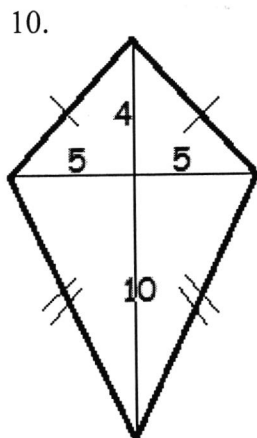
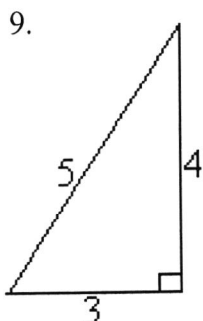
8. The rectangle shown has an area of 432in^2 . Find b .



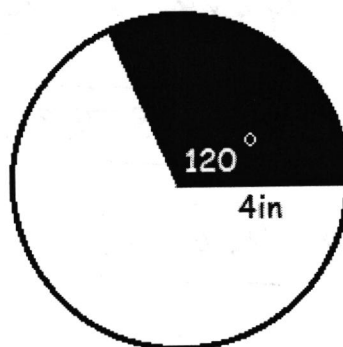
STATION 2

**DO NOT WRITE ON
THIS PAPER**

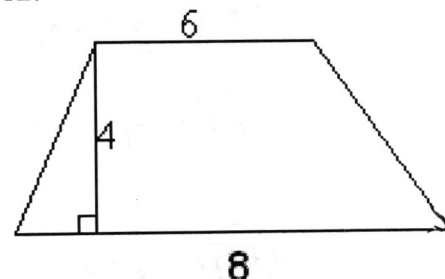
Find the area of each...



11. Sector area:



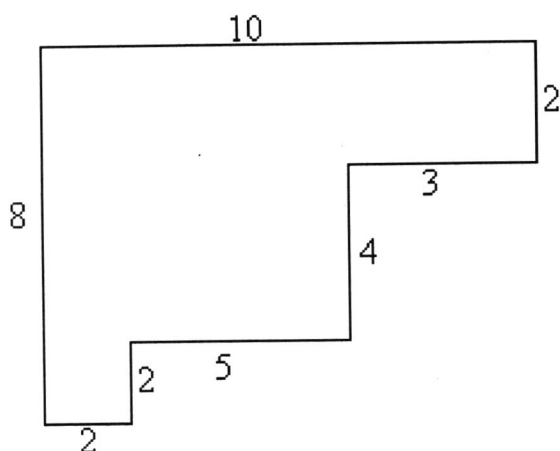
12.



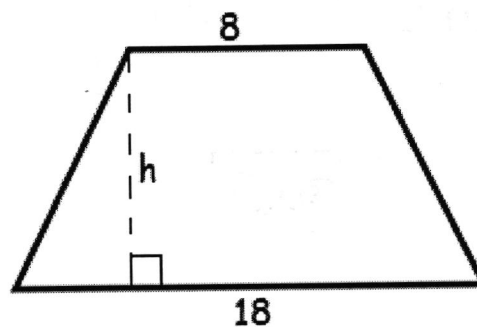
**don't forget
units*

13. What is the length of one side of a square with a perimeter of 32in?

14. Find the area:



15. The trapezoid shown has an area of $130u^2$. $h=?$

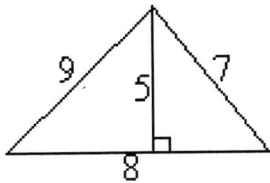


STATION 3

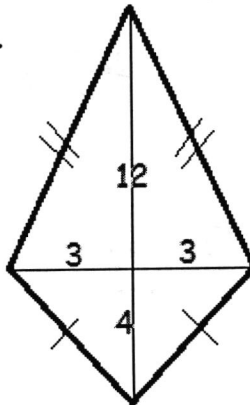
Find the area of each...

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THIS PAPER

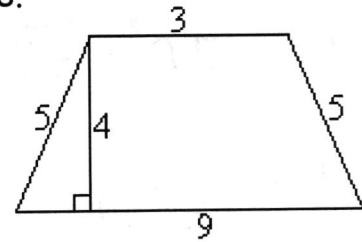
16.



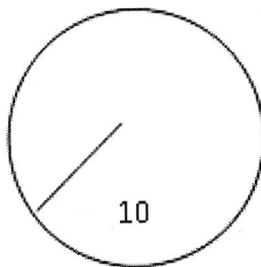
17.



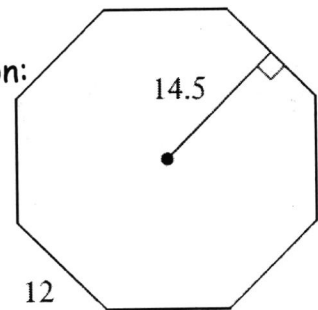
18.



19.



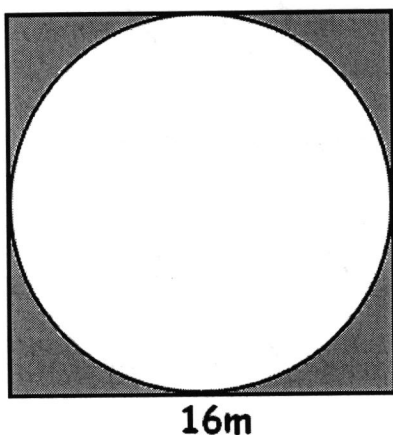
20. Regular octagon:



Don't forget units

21. What is the CIRCUMFERENCE of a circle with a radius of 15m?

22. Find the area of shaded area shown:
Hint: find the area of the square,
Then the area of the circle



23. The perimeter of a square is 20ft
What is the area?

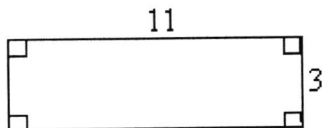
What is the radius? → Diameter is 16...

STATION 4

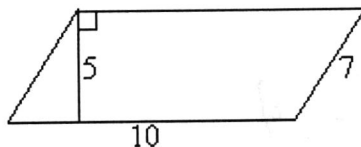
Find the area of each...

DO NOT WRITE ON THIS PAPER

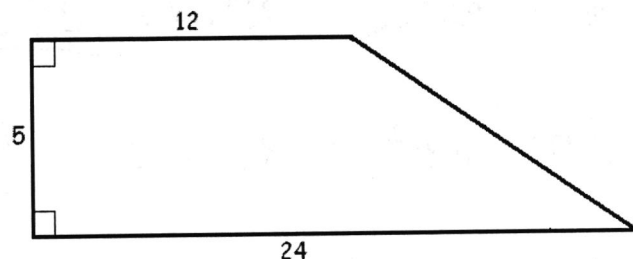
24.



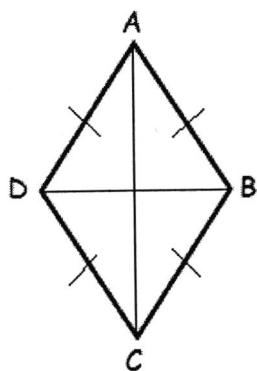
25.



26.



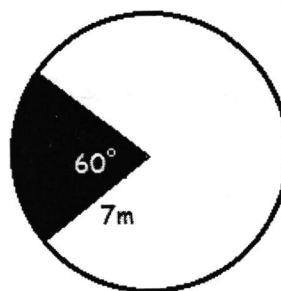
27.



$$\overline{AC} = 20\text{ ft}$$

$$\overline{BD} = 12\text{ ft}$$

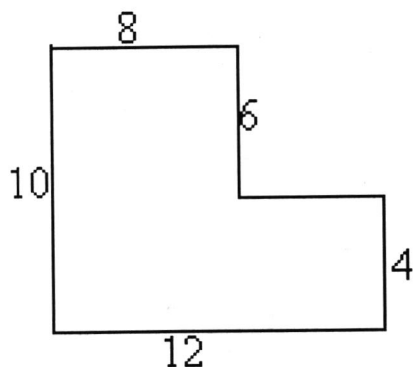
28. Sector area



don't forget units!

29. What is the area of a regular hexagon with a perimeter of 48in, and an apothem of 5in?

30. Find the area:



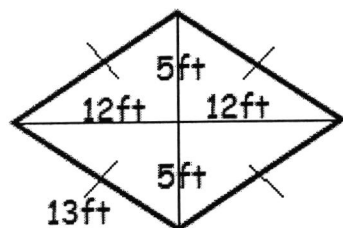
31. A triangle has an area of 48m^2 , and a height of 6m. What is the base length?

STATION 5

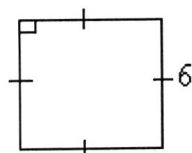
Find the area of each...

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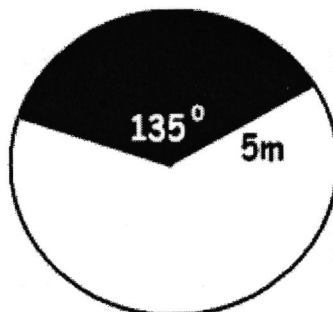
32.



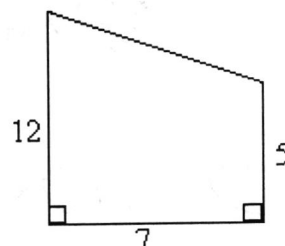
33.



34. Sector area

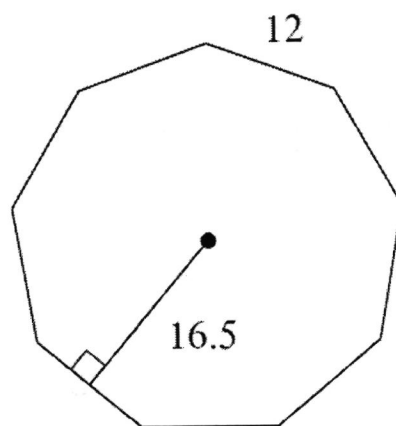


35.

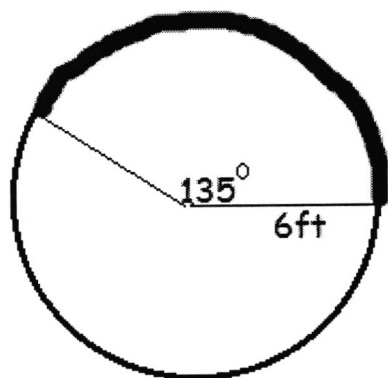


don't forget units!

36. What is the PERIMETER of this regular nonagon?



37. Find the arclength:



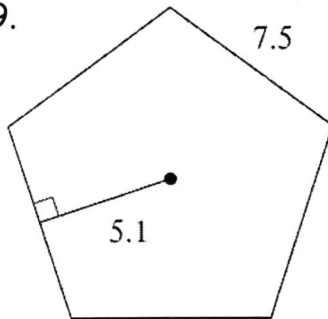
38. A circle has an area of 78.5in^2 .
What is the radius?

STATION 6

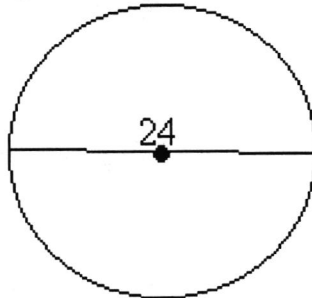
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THIS PAPER

Find the area of each...

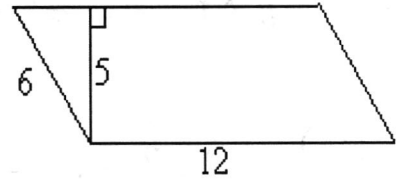
39.



40.



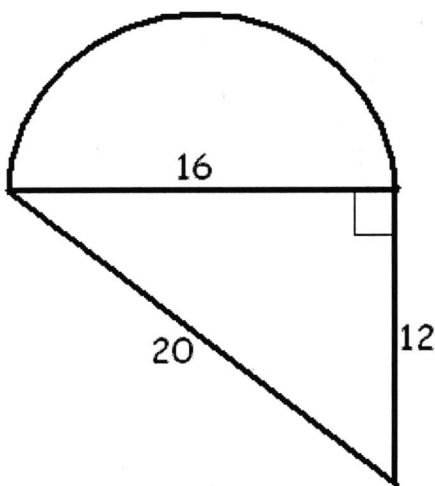
41.



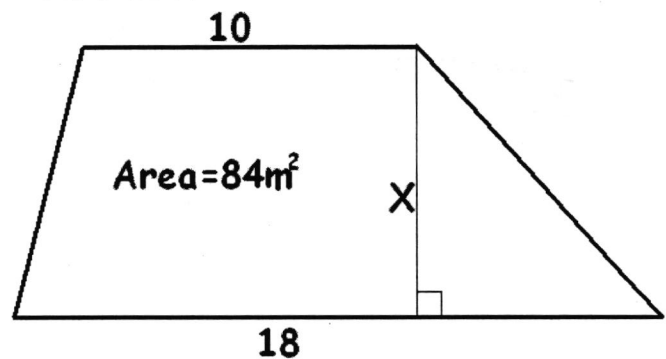
don't forget units!

42. What is the area of a rhombus with diagonals 3cm and 8cm?

43. Find the area:



44. Find X:



$$\textcircled{\#1} \quad b \times h = 12 \times 6 = \boxed{72 \text{ u}^2}$$

$$\textcircled{\#2} \quad \frac{1}{2} \times D \times D = \frac{1}{2} \times 6 \times 8 = \boxed{24 \text{ m}^2}$$

$$\textcircled{\#3} \quad \frac{1}{2} \times a \times p = \frac{1}{2} \times 14.4 \times 97.3 = \boxed{700.56 \text{ u}^2}$$

$$\textcircled{\#4} \quad \pi \times r^2 = 3.14 \cdot 11^2 = \boxed{379.94 \text{ u}^2}$$

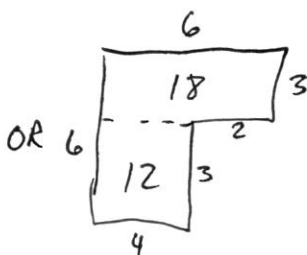
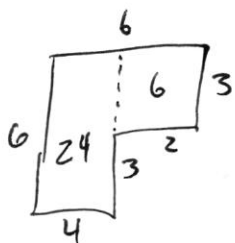
$$\textcircled{\#5} \quad b \times h = 12 \times 12 = \boxed{144 \text{ u}^2}$$

$$\textcircled{\#6} \quad A = \frac{1}{2} \times b \times h$$

$$A = \frac{1}{2} \times 12 \times 7$$

$$= \boxed{42 \text{ ft}^2}$$

$\textcircled{\#7}$



$$\boxed{30 \text{ u}^2}$$

$\textcircled{\#8}$

$$A = b \times h$$

$$432 = b \times 18$$

$$\boxed{24 \text{ in} = b}$$

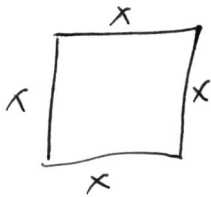
$$\textcircled{\#9} \frac{1}{2} \times b \times h = \frac{1}{2} \times 3 \times 4 = \boxed{6u^2}$$

$$\textcircled{\#10} \frac{1}{2} \times D \times D = \frac{1}{2} \times 14 \times 10 = \boxed{70u^2}$$

$$\textcircled{\#11} \pi r^2 \times \frac{\text{angle}}{360} = 3.14 \times 4^2 \times \frac{120}{360} \approx \boxed{16.7in^2}$$

$$\textcircled{\#12} \frac{b+b}{2} \times h = \frac{6+8}{2} \times 4 = \boxed{28u^2}$$

$\textcircled{\#13}$



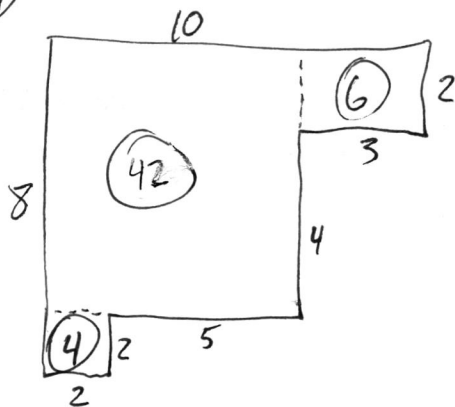
$$x + x + x + x = 32$$

$$4x = 32$$

$$x = 8$$

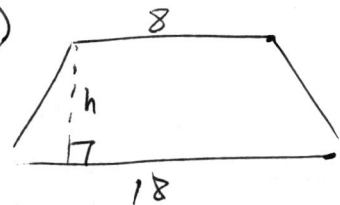
$$\longrightarrow \text{Area} = b \times h = 8 \times 8 = \boxed{64in^2}$$

$\textcircled{\#14}$



$$\boxed{52u^2}$$

$\textcircled{\#15}$



$$\frac{b+b}{2} \times h = A$$

$$\frac{8+18}{2} \times h = 130$$

$$13 \times h = 130$$

$$h = \boxed{10u}$$

$$\textcircled{\#16} \quad \frac{1}{2} \times b \times h = \frac{1}{2} \times 8 \times 5 = \boxed{20u^2}$$

$$\textcircled{\#17} \quad \frac{1}{2} \times D \times D = \frac{1}{2} \times 6 \times 16 = \boxed{48u^2}$$

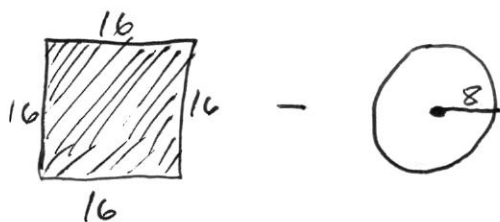
$$\textcircled{\#18} \quad \frac{b+b}{2} \times h = \frac{3+9}{2} \times 4 = \boxed{24u^2}$$

$$\textcircled{\#19} \quad \pi r^2 = 3.14 \times 10^2 = \boxed{314u^2}$$

$$\textcircled{\#20} \quad \frac{1}{2} \times a \times p = \frac{1}{2} \times 14.5 \times 12 = \boxed{87u^2}$$

$$\textcircled{\#21} \quad \text{Circumference} = 2\pi r = 2 \times 3.14 \times 15 = \boxed{94.2m}$$

$\textcircled{\#22}$



$$b \times h - \pi r^2$$

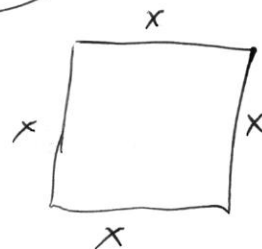
$$16 \times 16 - 3.14 \cdot 8^2$$

$=$

$$256 - 200.96$$

$$\boxed{55.04m^2}$$

$\textcircled{\#23}$



$$x + x + x + x = 20$$

$$4x = 20$$

$$x = 5$$

$$\text{area} = b \times h$$

$$= 5 \times 5$$

$$= \boxed{25ft^2}$$

#24 $b \times h = 11 \times 3 = \boxed{33 \text{ u}^2}$

#25 $b \times h = 10 \times 5 = \boxed{50 \text{ u}^2}$

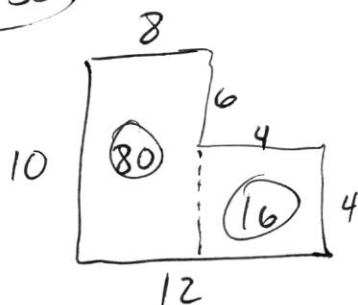
#26 $\frac{b+b}{2} \times h = \frac{12+24}{2} \times 5 = \boxed{90 \text{ u}^2}$

#27 $\frac{1}{2} \times D \times D = \frac{1}{2} \times 20 \times 12 = \boxed{120 \text{ ft}^2}$

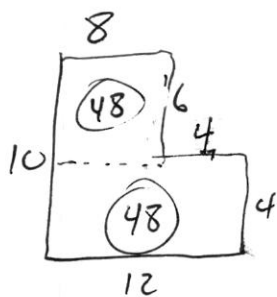
#28 $\pi r^2 \times \frac{\text{angle}}{360} = \pi \cdot 7^2 \cdot \frac{60}{360} \approx \boxed{25.6 \text{ m}^2}$

#29 $A = \frac{1}{2} \times a \times p = \frac{1}{2} \times 5 \times 48 = \boxed{120 \text{ in}^2}$

#30



$\boxed{96 \text{ u}^2}$



$\boxed{96 \text{ u}^2}$

#31

$A = \frac{1}{2} \times b \times h$

$48 = \frac{1}{2} \times b \times 6$

$48 = 3b$

$\boxed{16 \text{ m} = b}$

$$\textcircled{\#32} \quad \frac{1}{2} \times D \times D = \frac{1}{2} \times 24 \times 10 = \boxed{120 \text{ ft}^2}$$

$$\textcircled{\#33} \quad b \times h = 6 \times 6 = \boxed{36 \text{ u}^2}$$

$$\textcircled{\#34} \quad \pi \times r^2 \times \frac{\text{angle}}{360} = 3.14 \times 5^2 \times \frac{135}{360} \approx \boxed{29.4 \text{ m}^2}$$

$$\textcircled{\#35} \quad \frac{b+b}{2} \times h = \frac{12+5}{2} \times 7 = \boxed{59.5 \text{ u}^2}$$

$$\textcircled{\#36} \quad \text{perimeter: add up all the sides. Ignore the 16.5.}$$

$$9 \times 12 = \boxed{108 \text{ u}}$$

$$\textcircled{\#37} \quad 2 \times \pi \times r \times \frac{\text{angle}}{360}$$

$$2 \times 3.14 \times 6 \times \frac{135}{360}$$

$$\approx \boxed{14.14^2}$$

$$\textcircled{\#38}$$

$$\text{Area} = \pi r^2$$

$$78.5 = 3.14 r^2$$

$$25 = r^2$$

$$\boxed{5 \text{ in} = r}$$

#39 $\frac{1}{2} \times a \times p = \frac{1}{2} \times 5.1 \times 37.5 \approx \boxed{95.6 \text{ u}^2}$

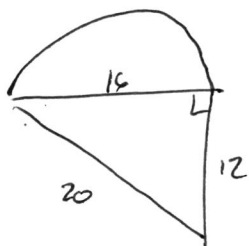
#40 Radius = 12!

$\pi \times r^2 = 3.14 \times 12^2 \approx \boxed{452.16 \text{ u}^2}$

#41 $b \times h = 12 \times 5 = \boxed{60 \text{ u}^2}$

#42 $\frac{1}{2} \times D \times D = \frac{1}{2} \times 3 \times 8 = \boxed{12 \text{ cm}^2}$

#43



Circle (radius is half of 16)

$\pi r^2 = 3.14 \times 8^2$

$= 200.96$

but only half half!

$= \boxed{100.48}$

Area of $\Delta = \frac{1}{2} \times 12 \times 16 = \boxed{96}$

$100.48 + 96$

$\boxed{196.48 \text{ u}^2}$

#44

Area = $\frac{b+b}{2} \times h$

$84 = \frac{10+18}{2} \cdot x$

$84 = 14 \cdot x$

$\boxed{6 \text{ m} = x}$