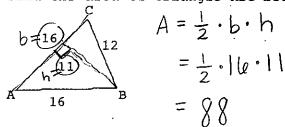
Unit F Review

In parallelogram ABCD, AB = 5 and BC = 30. Find the perimeter

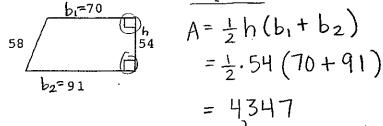
30+30+5+5 =

Find the area of triangle ABC below.



- 70 units
- 2) 88 Uni

Find the area of the trapezoid below.



3) 4,347 units2

رم 15 cm

Find the perimeter of a regular hexagon in which one side has length 11h.

= leleh (p. 11 h

4) leleh units

Find the area of the parallelogram below. 5.

 $A = b \cdot b$ =12K.9K $= 100 \, \text{k}^2$

 $_{5}$, 108 k² units²

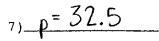
For the circle at the right, 6. find the exact lave T

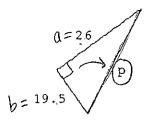
a. circumference.

b. area. G C= 2·π·r = 2·π·15 $= 30\pi$ $= \pi \cdot 15^2$ $= 225 \pi$

 $_{\rm b)} 225\pi$

Find the length of the missing side.





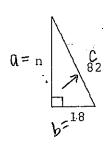
$$0^{2} + b^{2} = C^{2}$$

$$20^{2} + 19.5^{2} = p^{2}$$

$$\sqrt{1056.25} = p^{2}$$

$$32.5 = p$$

Find the length of the missing side.



$$a^{2} + b^{2} = c^{2}$$

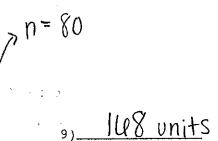
$$n^{2} + 18^{2} = 82^{2}$$

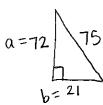
$$n^{2} + 324 = 6724$$

$$-324$$

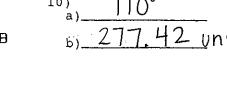
$$\sqrt{n^{2}} = \sqrt{6400}$$
Alogo of a right triangle have

The two legs of a right triangle have lengths 21 and 72. What is the perimeter of the triangle?





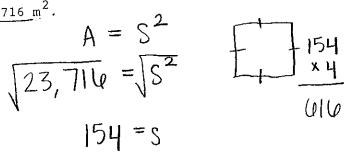
- In ∞ at the right, $\widehat{\text{mABC}} = 250^{\circ}$ and $\widehat{\text{OB}} = 17$.
- a. Find the length of ADC.
- b. Find the area of the shaded sector.





$$(\frac{110}{300})$$
TT· 17^2

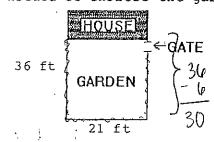
Find the perimeter of a square with area 23,716 m².



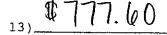
360-250

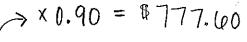
12. A rectangular garden 21 feet wide and 36 feet long is to be built with the short side against the wall of a house. There will be a 6-foot gate in the adjacent side. How much fencing will be needed to enclose the garden?

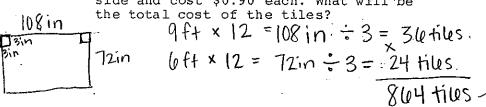
12) 8/++



- 4 = 36 + 21 + 30
- 13. A rectangular hall floor 6 feet wide and 9 feet long is to be covered with square ceramic tiles that measure 3 inches on a side and cost \$0.90 each. What will be the total cost of the tiles?

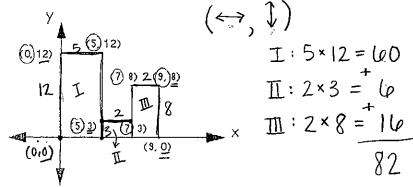






14). 82 units²

14. Find the area of the figure below



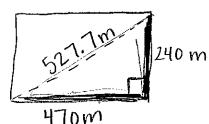
15. There are two different paths you can use to cross a rectangular park which measures 240 m by 470 m. One path is laid out along a diagonal of the park. The other path is laid out along two adjacent sides. To the nearest tenth of a meter, how much shorter is the diagonal path than the path along the two adjacent sides?

15) 182.3 m

$$a^{2} + b^{2} = c^{2}$$

$$240^{2} + 470^{2} = c^{2}$$

$$\sqrt{278,500} = \sqrt{c^{2}}$$



Adjacent: 470 + 240 = 710-527.7 -182.3 m

$$d=4s \div 2 = 2s$$

Square XYZW has sides with 16. length 4s. XW is the diameter of circle P. Write an expression for the area of the shaded region.



9.75 unit

$$165^2 - 6.35^2 = 9.75^2$$

Savare: 45-45 = 165

$$\frac{1}{2}$$
 circle: $\pi \cdot r^2 = \pi \cdot (25)^2 = \pi \cdot 4s^2 = 12.6s^2 \div 2 = 6.3s^2$

Could the numbers 25, 13, and 31 be the lengths of the sides of a right triangle? Give a reason for your answer. $0^2 + b^2 = 0^2$

No, Since 794 + 961.

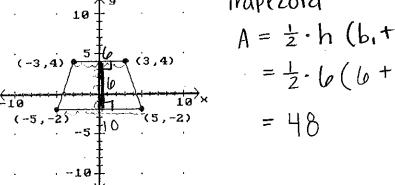
$$a^{2} + b^{2} = c^{2}$$

 $13^{2} + 25^{2} = 31^{2}$
 $794 \neq 961$

18) 48 Units

Calculate the area of the figure.

Trapezoid



 $A = \frac{1}{2} \cdot h \left(b_1 + b_2 \right)$ $=\frac{1}{2}\cdot 6(6+10)$

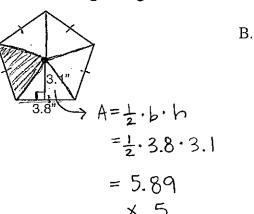
19. A dart is thrown at the dart board shown at the right, at random. What is the probability that it will hit the bull's eye at the center, if the diameter of the bull's eye is 0.8 inches, and the diameter of the entire dart board is 24 inches?

. | | | | %

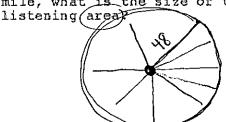
$$\frac{\text{area of bullseye}}{\text{area of target}} = \frac{\pi \cdot r^2}{\pi \cdot r^2} = \frac{\pi \cdot 0.4^2}{\pi \cdot 12^2} = \frac{.5027}{452.39}$$

20. Find the area of each regular figure below.

A.

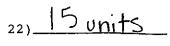


21. The listening area for a radio station extends 48 miles in every direction from its signal tower. To the nearest square mile, what is the size of the station's



 $A = \pi \cdot r^2$ $= \pi \cdot 48^2$ = 7.238.23

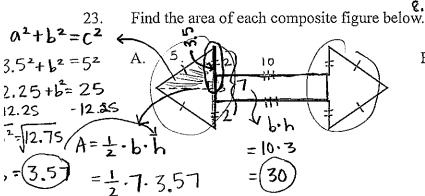
22. The area of a triangle is 127.5 square units. The length of one side is 17 units. Find the length of the altitude to that side.



21) 7238.23 mi 2

/h 17

 $A = \frac{1}{2} \cdot b \cdot h$ $127.5 = \frac{1}{2} \cdot 17 \cdot h$ $127.5 = \frac{8.5}{8.5} \cdot \frac{1}{8.5}$



B. 28

