AGENDA

1. Warm-Up
2. Review Hw
3. Composite Figures

1) What is the formula for the circumference of a circle?

2) What is the formula for the area of a circle?

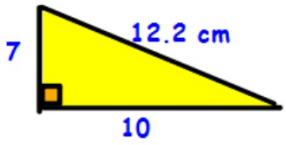
3) What is the number that represents pi?

4) Find the area and circumference of

1. Look for the right angle

$A = bh$

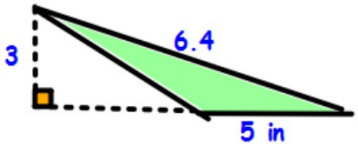
2. Look for the right angle



$A = \frac{bh}{2}$

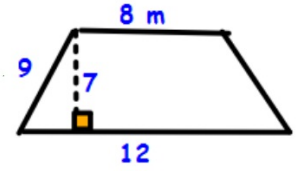
$A = {}^1/_2\, bh$

3. Look for the right angle



$A = {}^1/_2 bh$

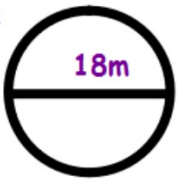
4. Look for the right angle



$A = {}^1/_2 h(b+b)$

5. Find the area and circumference

$A = \pi r^2$



$C = 2\pi r$ or πd

Composite or Irregular Figures

ɔsite or
lar Figure

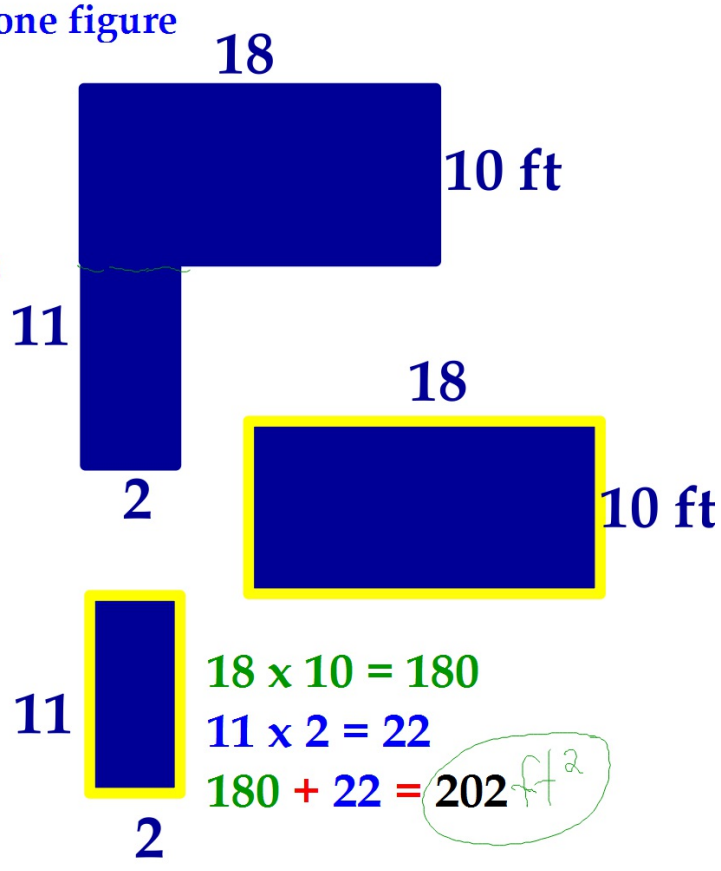
ps:

Made up of more than one figure

1. break the shape into familiar shapes (tracing them with a marker)

2. Find the area/ perimenter of each figure

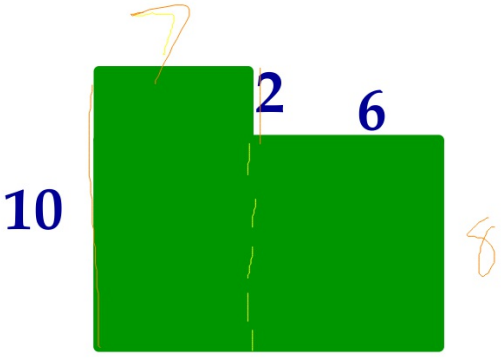
3. Add the totals

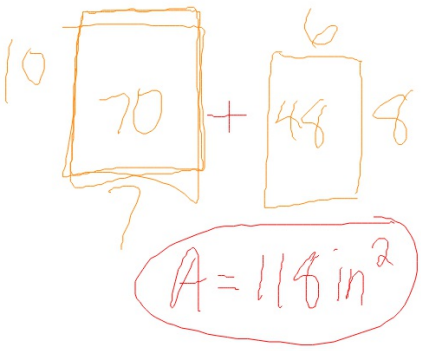


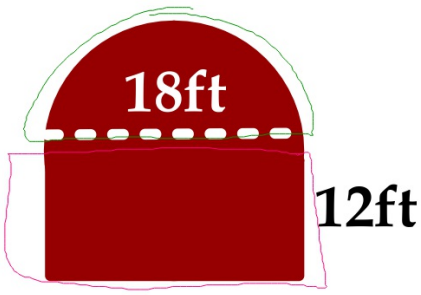
18 x 10 = 180

11 x 2 = 22

180 + 22 = 202 ft^2







$A = \frac{\pi r^2}{2}$

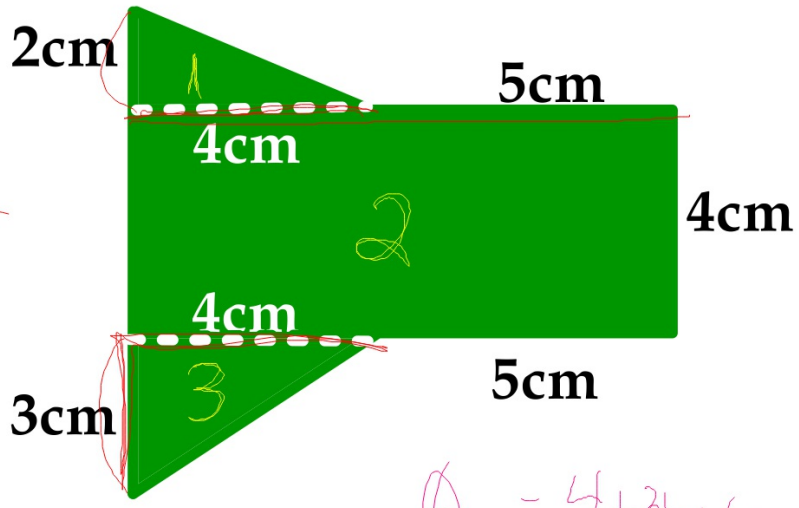
$A = \frac{3.14(9^2)}{2} = 127.17$

+

$A = L \cdot W$

$A = 18 \cdot 12 = 216$

343.17ft²



$A = \frac{bh}{2} = \frac{4 \cdot 2}{2}$

$A = 4$

$A = L \cdot W$

$A = 9 \cdot 4$

$A = 36$

$A = \frac{bh}{2} = \frac{3 \cdot 4}{2} = \frac{12}{2} = 6$

$A_T = 4 + 36 + 6$

$= 46\ cm^2$

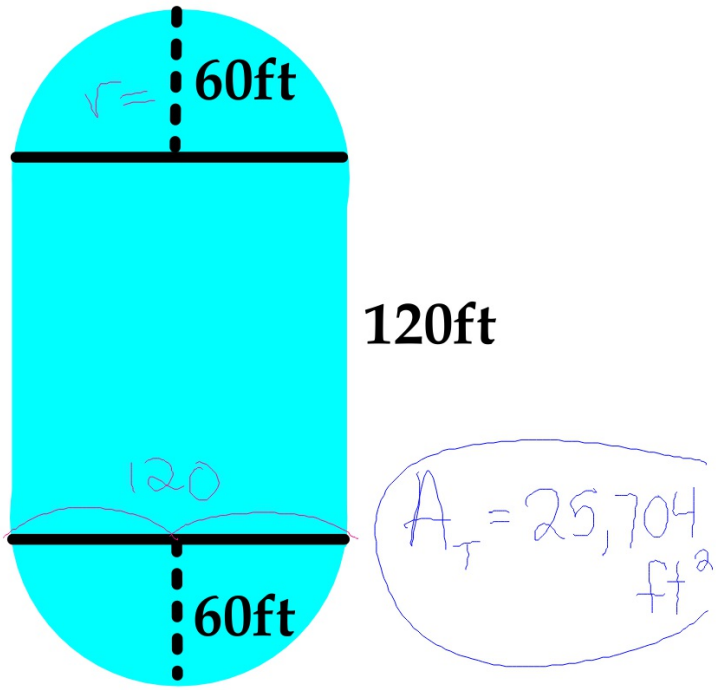
$A_{\bigcirc} = \pi r^2$

$A = 3.14(60^2)$

$A = 11,304$

$A_{\square} = 120^2$

$A = 14,400$

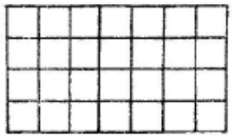


Complete on loose leaf paper.
Show your work.

What is GREEN and makes HOLES?

Find the AREA of each figure below and circle your answers in the answer column. When you finish, arrange the letters in order from the letter of the smallest correct answer to the letter of the largest correct answer. Write the letters in this order in the boxes at the bottom of the page. (In the first four problems, assume each box = 1 cm^2.)

1.



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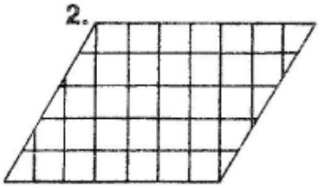
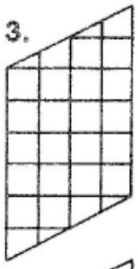


3.



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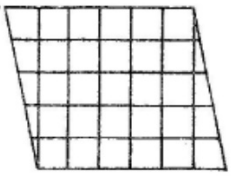

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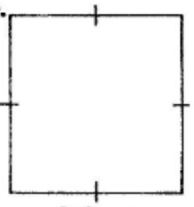

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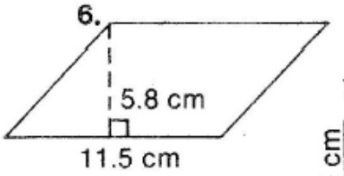
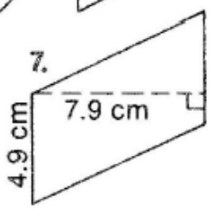
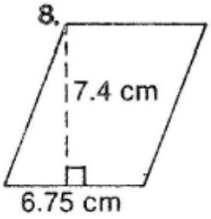


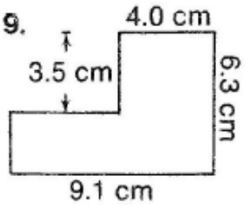
7.



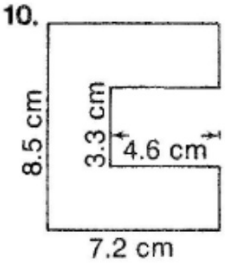
8.



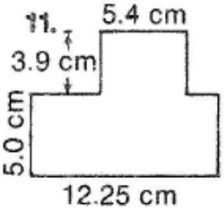
9.



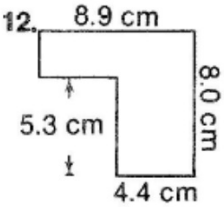
10.



11.



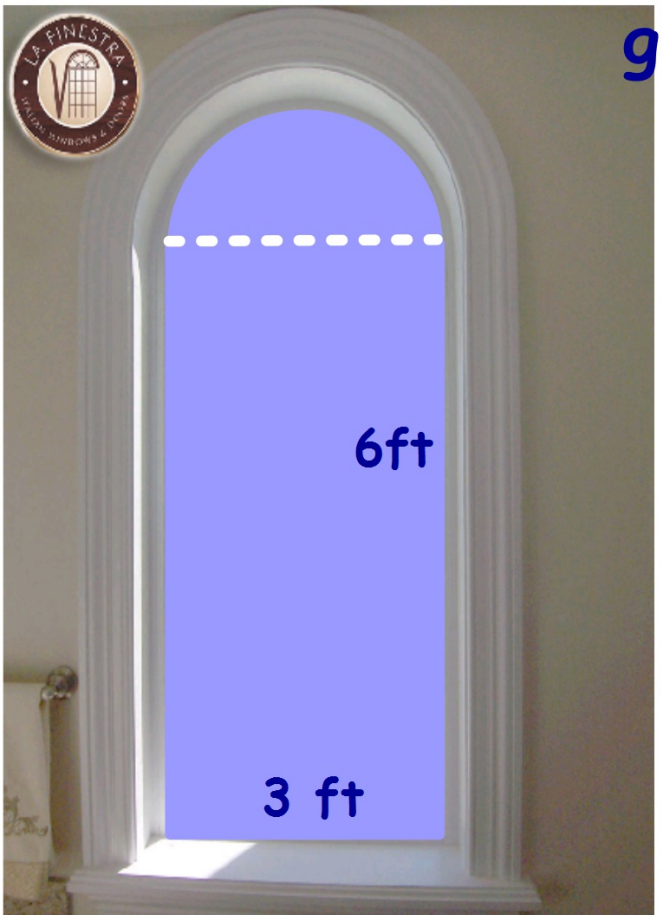
12.



Ⓚ	49.95 cm^2
Ⓡ	28 cm^2
Ⓔ	82.31 cm^2
Ⓛ	35 cm^2
Ⓣ	29.83 cm^2
Ⓘ	46.02 cm^2
Ⓢ	55.54 cm^2
Ⓐ	24 cm^2
Ⓟ	39.48 cm^2
Ⓛ	66.7 cm^2
Ⓡ	42 cm^2
Ⓘ	30 cm^2
Ⓒ	47.35 cm^2
Ⓝ	75.41 cm^2
Ⓓ	27.04 cm^2
Ⓖ	22.4 cm^2
Ⓛ	38.71 cm^2

LETTER OF SMALLEST CORRECT ANSWER → | | | | | | | | | | | | | ← LETTER OF LARGEST CORRECT ANSWER

Find the area of the glass in the window



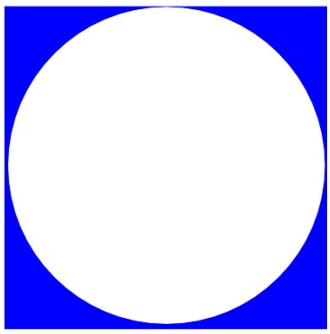
Area of Shaded Region:

Steps:

1) Find the area of the outer shape

2) Find the area of the inner shape

3) Subtract



	Outside shape square	-	Inside shape circle
Formula	$A = s^2$		$A = \text{pi} \times r^2$
Substitute	$A = 7^2$		$A = 3.14 \times 3.5^2$
Solve	$A = 49$		$A = 38.465$
Subtract			

$A_{(\text{shaded region})} = \underline{10.535 \text{units}^2}$