
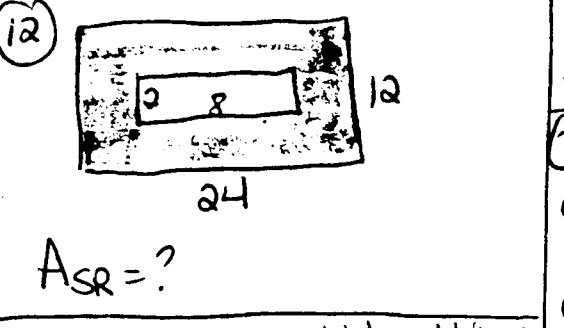
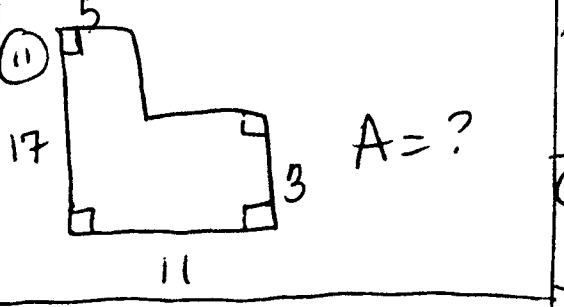
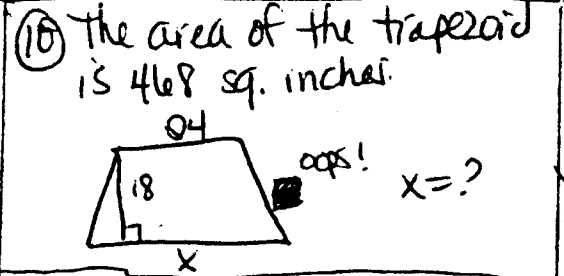
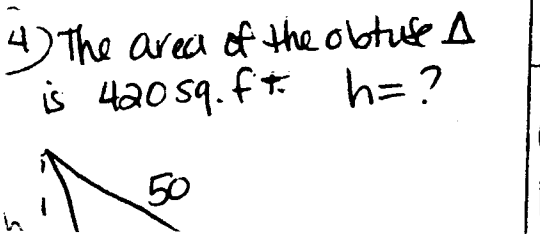
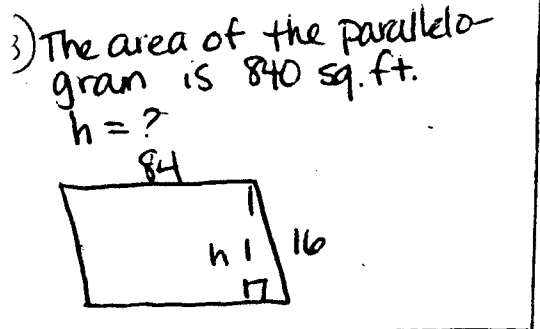
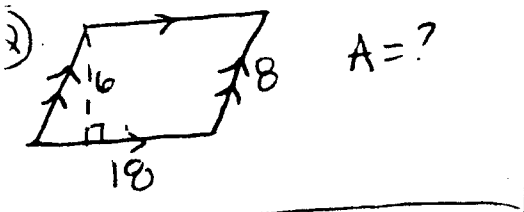
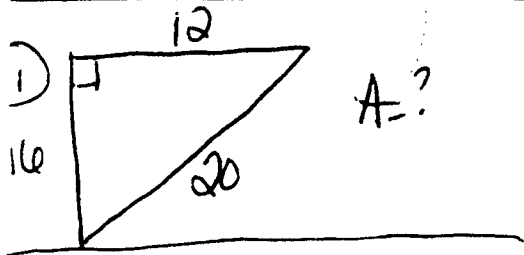


Geometry Honors
 Ms. Chan  Pre-Quiz 8.1-8.4



13) A 75 classrm. bldg. addition is to be made at Flanagan High School. Each classroom will be 25 feet by 15 feet

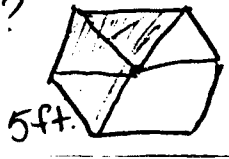
PR- Quiz 8.5-8.6:)

1) Explain in a complete paragraph, how the formula for the area of a regular polygon is derived.

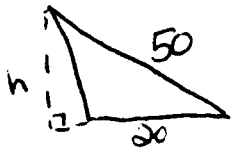
2) Explain in a complete paragraph how the formula for the area of a circle relates to the area of a regular polygon.

3) The shaded portion of a regular hexagon is to be painted. The apothem is 12.5 feet.

$A_{SR} = ?$

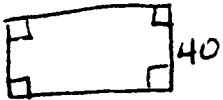


is 420 sq. ft. $h = ?$

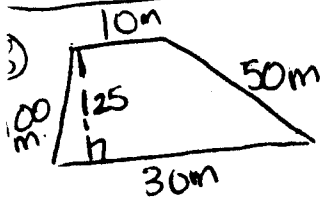


3) The perimeter of a square is 64 cm. What's the area?

4) The perimeter of a rectangle is 240 m. Find the area.



5) The perimeter is 250 cm. The area is 400 cm^2 . $h = ?$



9) Suppose the areas of a rectangle and parallelogram are equal. The rectangle has a length of 15m and a width of 5m. If the parallelogram has a base of 25m, find h .

13) A 75 classrm. bldg. addition is to be made at Planagan High School. Each classroom will measure 25 feet by 15 feet ~~high~~ and have a 12 foot high ceiling. The 4 walls & ceiling of each rm. will be painted with one coat of paint. A gallon of paint covers 300 sq. feet.

(a) Calculate the total area to be painted.

(b) How many gallons of paint will be required?

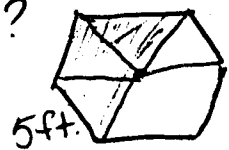
14) Describe in a complete \mathbb{P} how we arrive at the formulas for the area of a parallelogram, triangle, and trapezoid.

15) \rightarrow

	b_1	b_2	h	A
16	12	10	4	?
17	7	8	?	168
18	?	20	9	135

19) The perimeter of an isos. Δ is 54 and its area is 16. If the height is 8, what is the measure of each leg?

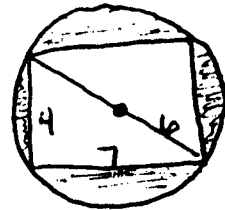
$A_{SP} = ?$



4) The circumference is 36π , $A = ?$

5) Each side of a regular pentagon is 12.7 cm and the apothem is 10.3 cm. $A \approx ?$ (round to nearest tenth)

6)



$A_{SP} = ?$

7) an octagon with an apothem 6.4 cm and a side 15 cm long. $A = ?$

8) a square with a side of 25 in. long and an apothem 18 in long. $A = ?$

9) a hexagon with a side 45.2 m long and an apothem 10 m. long. $A = ?$

10) a pentagon with an apothem 245.3 mm long and a side 270 mm long. $A = ?$

Find the area of a circle with a radius of 43 cm.

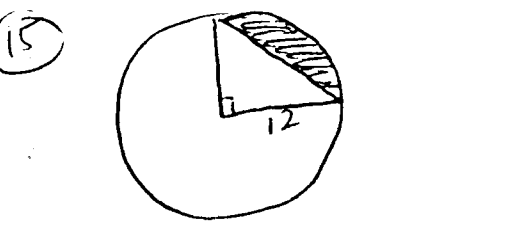
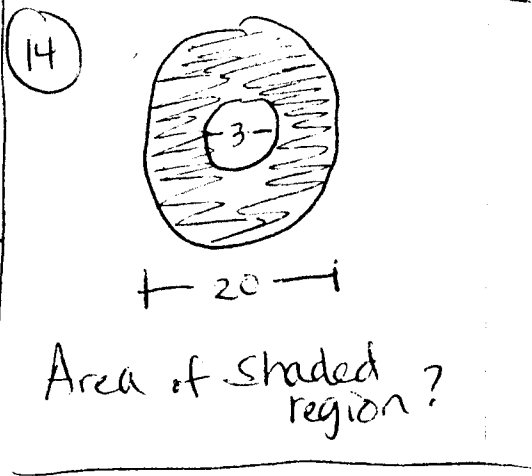
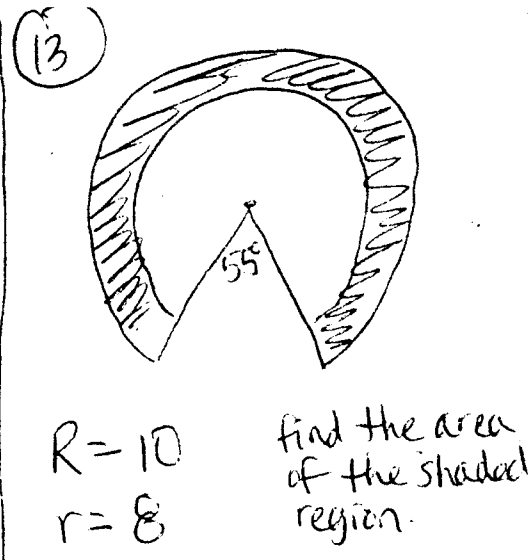
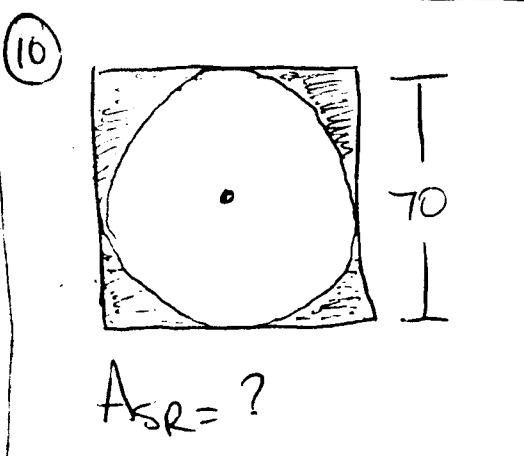
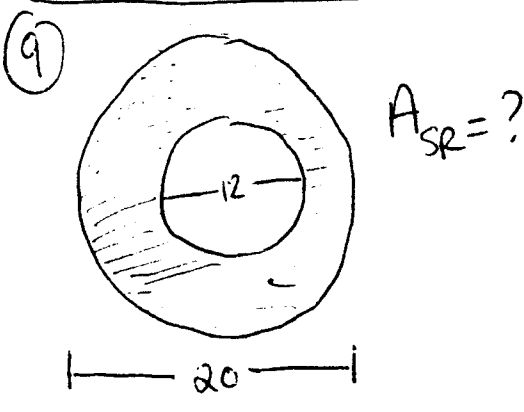
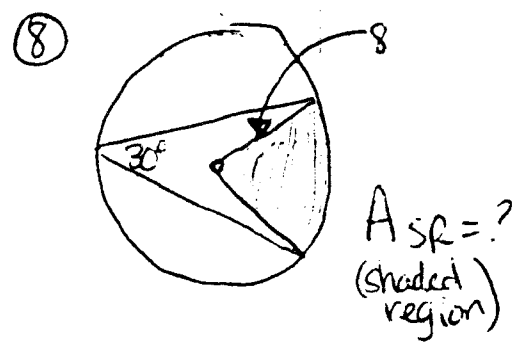
Find the area of a circle with a diameter of 8 yds.

If the area of a circle is ~~100π~~ 100π sq. cm, find the radius.

If the area of a circle is 100π , find the circumference.

Find the area of an equilateral Δ with an apothem 12 cm and a side of 8.4 cm long.

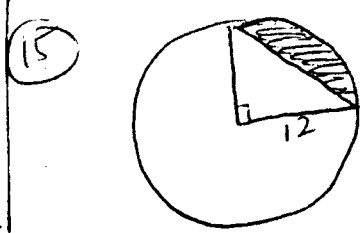
The area of a square is 49 sq. inches. Find the length of an apothem.



1) The area of a square is 49 sq. inches! Find the length of an apothem.

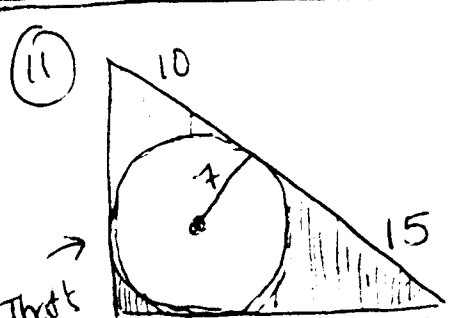


$A_{sq} = ?$



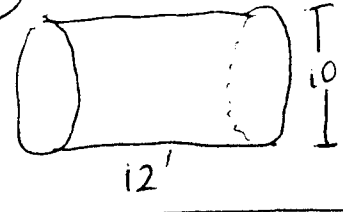
A of shaded region?

2) A square has sides of 40 inches what is the area of a circle inscribed in the square



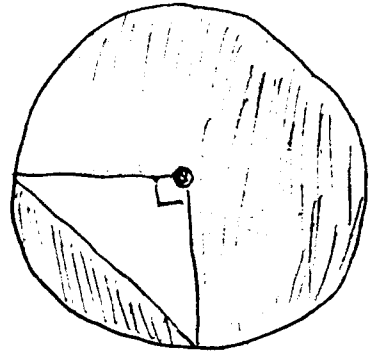
That's supposed to be a perfect circle.

16) Total surface area = ?

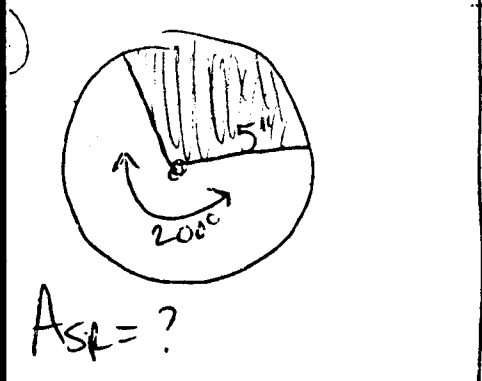
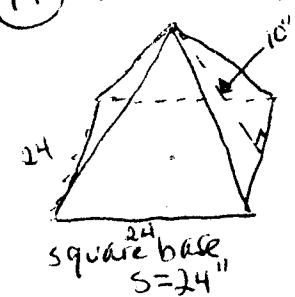


Pre-Quiz 8.5 - 8.8

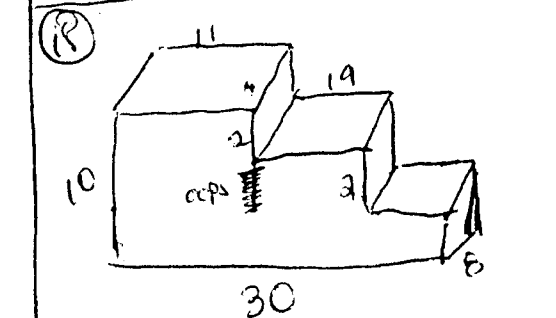
12) Find shaded area. The circumference is 104π .



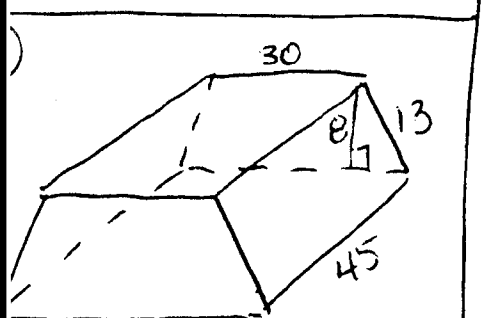
17) Total surface area = ?



$A_{sq} = ?$



Total surface area = ?



Total Surface Area = ?

Answers to Pre-Quiz 8.1-8.4:

1. 96
2. 108
3. 10
4. 42
5. 256
6. 3200
7. 4
8. 500
9. 3
10. 28
11. 103
12. 272
13. a) 100,125 b) 334 gal
14. see your notes
15. see your notes
16. 44
17. 22.4
18. 10
19. 10

Answers to Pre-Quiz 8.5-8.6

1. see your notes
2. see your notes
3. 93.75
4. 324 pi
5. 327.0
6. 36 pi - 28
7. 384
8. 900
9. 1356
10. 165,577.5
11. 1849 pi
12. 16 pi
13. 8 cm
14. 20 pi
15. 151.2
16. 3.5
17. 400 pi

Answers to Pre-Quiz 8.5-8.8:

6. 100/9 pi
7. 5590
8. 32/3 pi
9. 64 pi
10. 4900 - 1225 pi

**Answers to Pre-Quiz 8.5-8.7
contd:**

11. 187 - 49 pi
12. 2704 pi - 1352
13. 61 / 2 pi
14. 391/4 pi
15. 36 pi - 72
16. 170 pi
17. 1056
18. 1124