Geometry Pd 4 & 5 Schedule for Week April 22-26

Monday - Review Surface Area Material and prepare notes for tomorrow's test

Tuesday - TEST on Surface Area

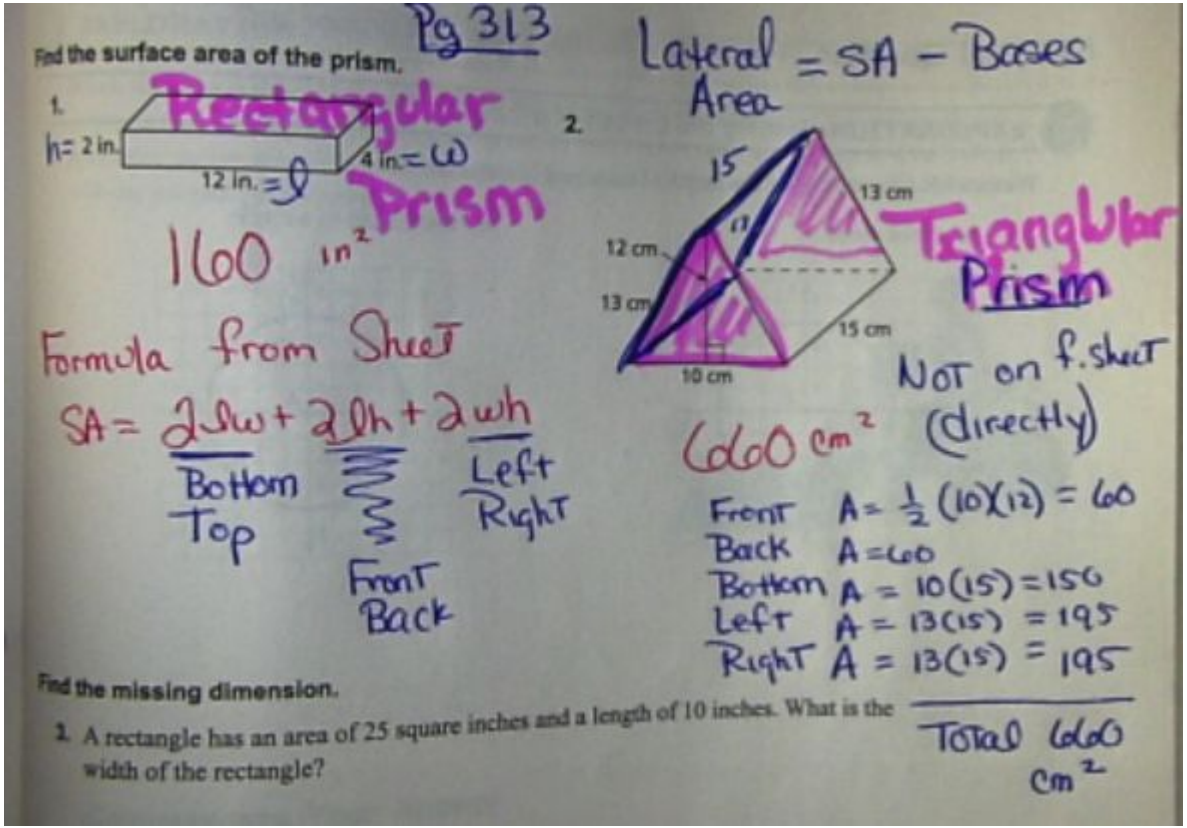
Wednesday - Collect all notes from Volume unit & Surface Area unit

- Start notes and exercises on the Circle Segment Sections from chapter 10 in our book (1,3,7,8) See slideshow for more information

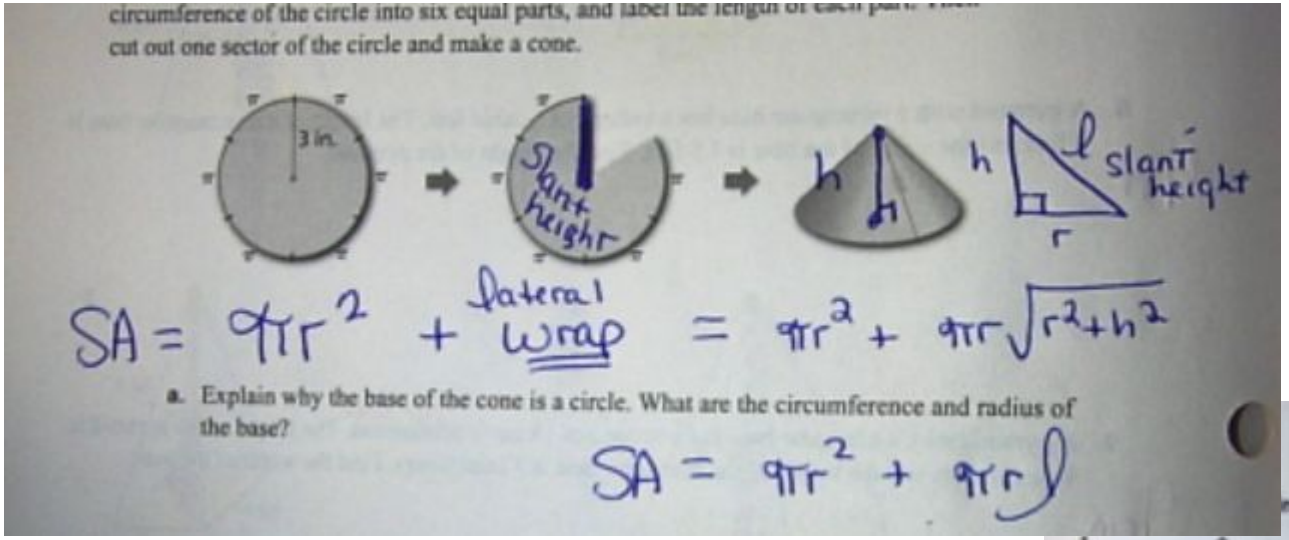
Thursday - Assignment 10.1 online bigideasmath.com

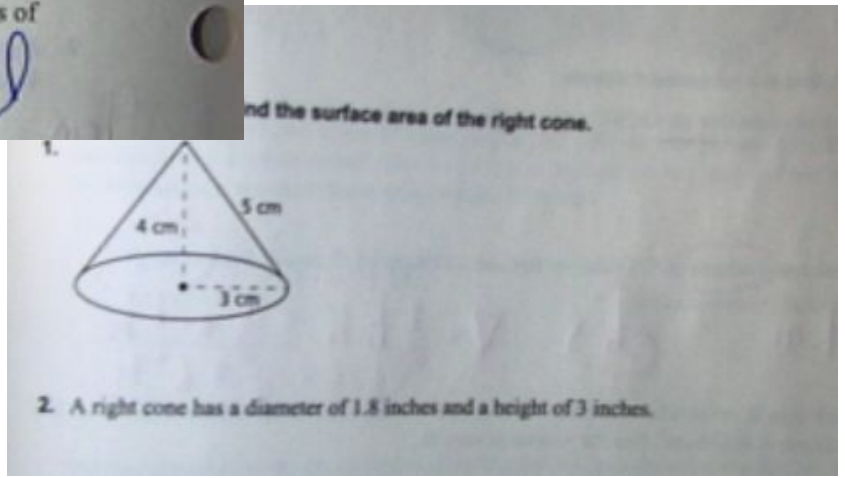
Friday - Notes on 10.3 CHORDS with diameters and review TANGENT

Review of Prism Surface Area - piece by piece



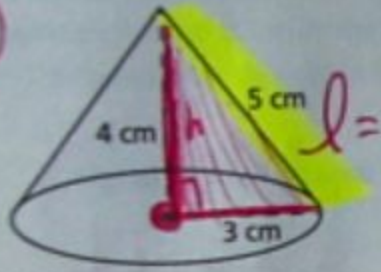
11.7 Cone Surface area has slant height needed vs altitude





In Exercises 1 and 2, find the surface area of the right cone.

1.



SA = 75.4

ℓ = slant height

4 = altitude height

$r^2 + h^2 = \ell^2$

2. A right cone has a diameter of 1.8 inches and a height of 3 inches.

SA = 11.4 in^2

$SA = \pi r^2 + \pi r \ell$

$SA = \pi r^2 + \pi r \sqrt{r^2 + h^2}$

d = 1.8

r = .9

SJ 11.8 Sphere

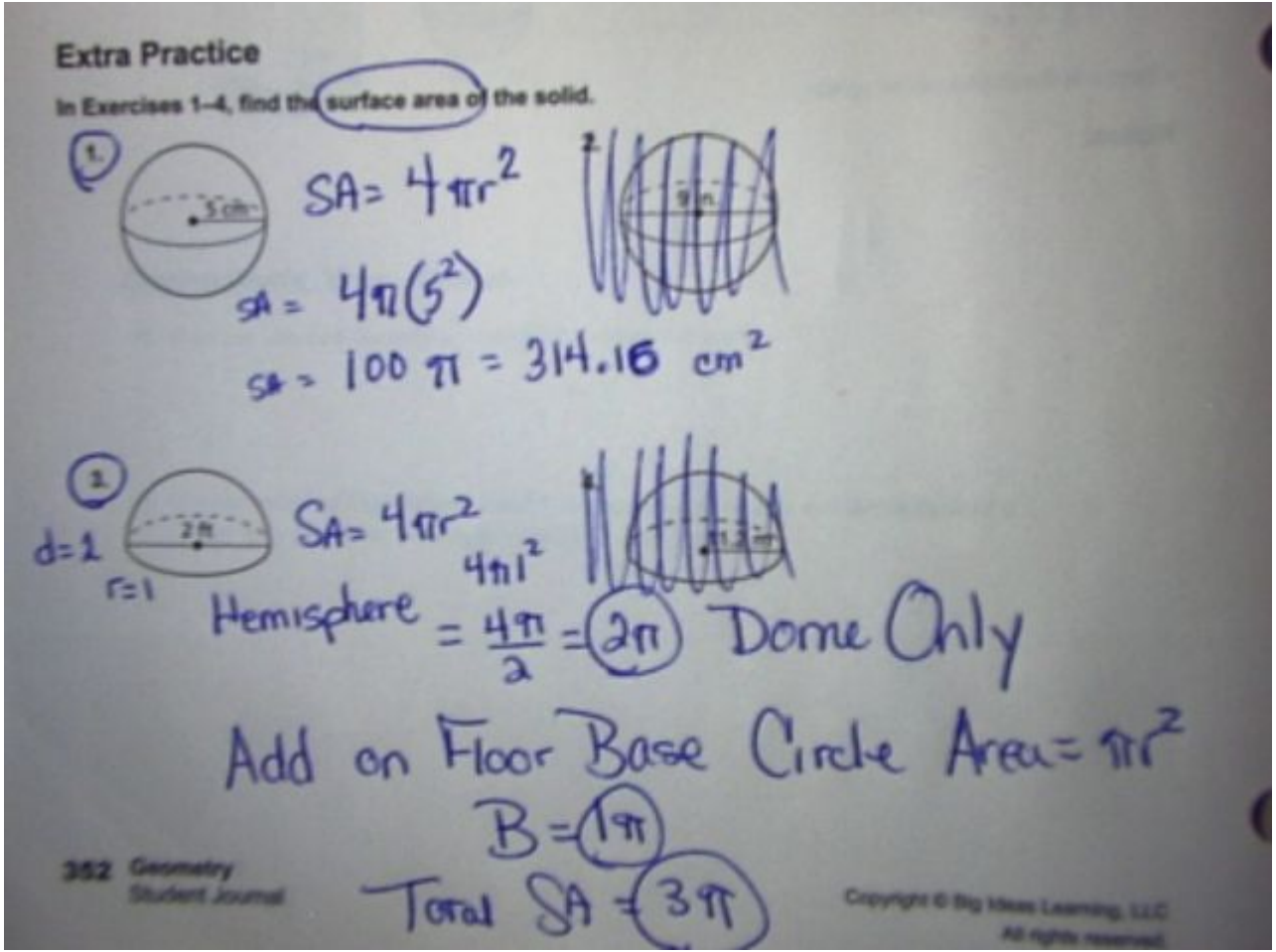
Hemisphere

Do you want only the

Top dome

Or

Include a base circle



Page 1 & 2 for Kuta Surface Area sheet

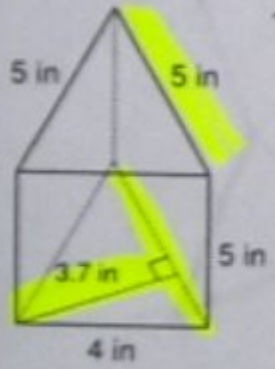
This is the video link for solutions worked out.

https://www.youtube.com/watch?v=CzTQELWR0wM&t=2s

This is the pdf of answers only

https://cdn.kutasoftware.com/Worksheets/PreAlg/Surface%20Area%20of%20Solids.pdf

5)



Triangular Prism

5 faces

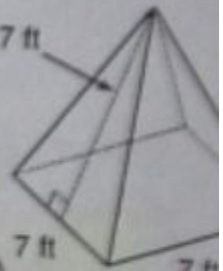
2 Triangles

$\frac{1}{2}(5)(3.7) =$

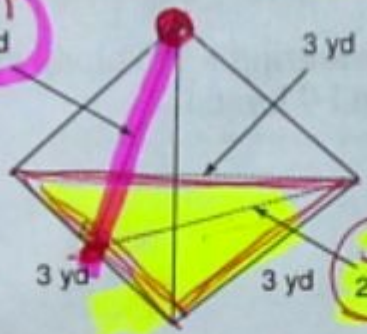
3 Rectangles

$5 \cdot 5 + 5 \cdot 4 + 5 \cdot 5 =$

6)



7) h = 2.2 yd



h = 2.6 yd

13.8

Triangle Pyramid

Base $\frac{1}{2}bh$

3.9 $= \frac{1}{2}(3)(2.6)$

Lateral face Triangles

$= 3 \cdot \frac{1}{2}(3)(2.2)$

$= 3 \cdot 3.3$

$= 9.9$

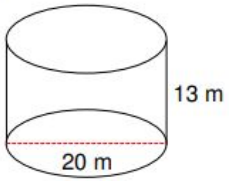
Total $= 3.9 + 9.9 =$ 13.8

9)

50.3

$r = 2$

13)



1445.1 m²

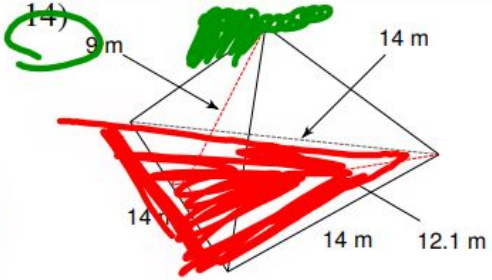
Base

$\frac{1}{2}(12.1)(14)$

+ Lateral △

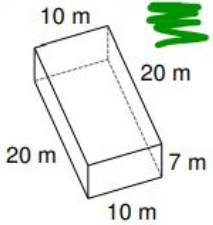
$\frac{1}{2}(9)(14)$ ×3

14)



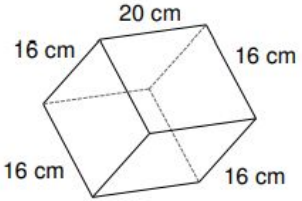
273.7 m²

15)



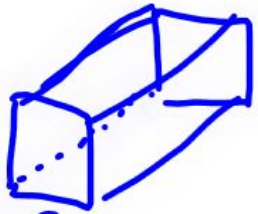
820 m²

16)



1792 cm²

8

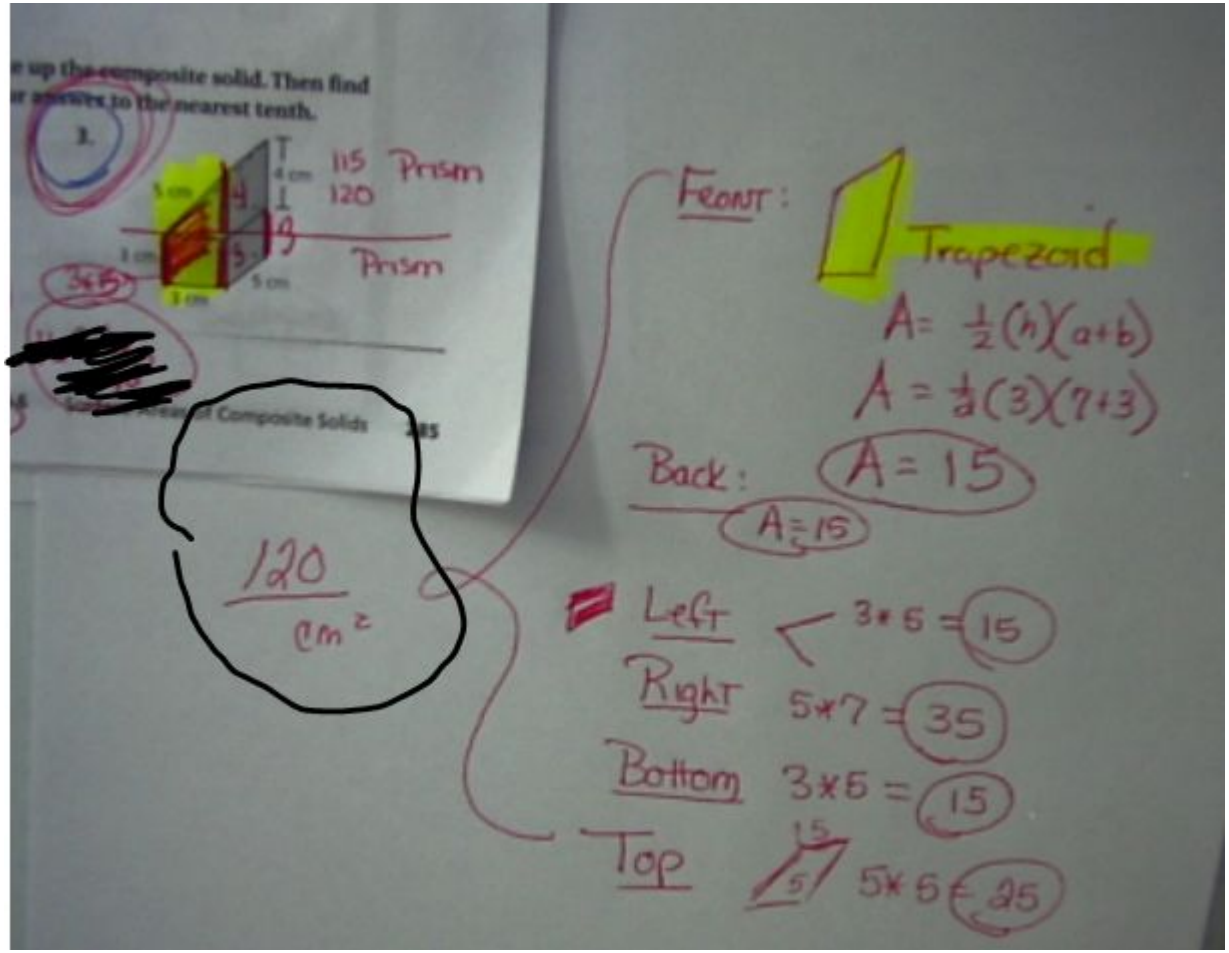


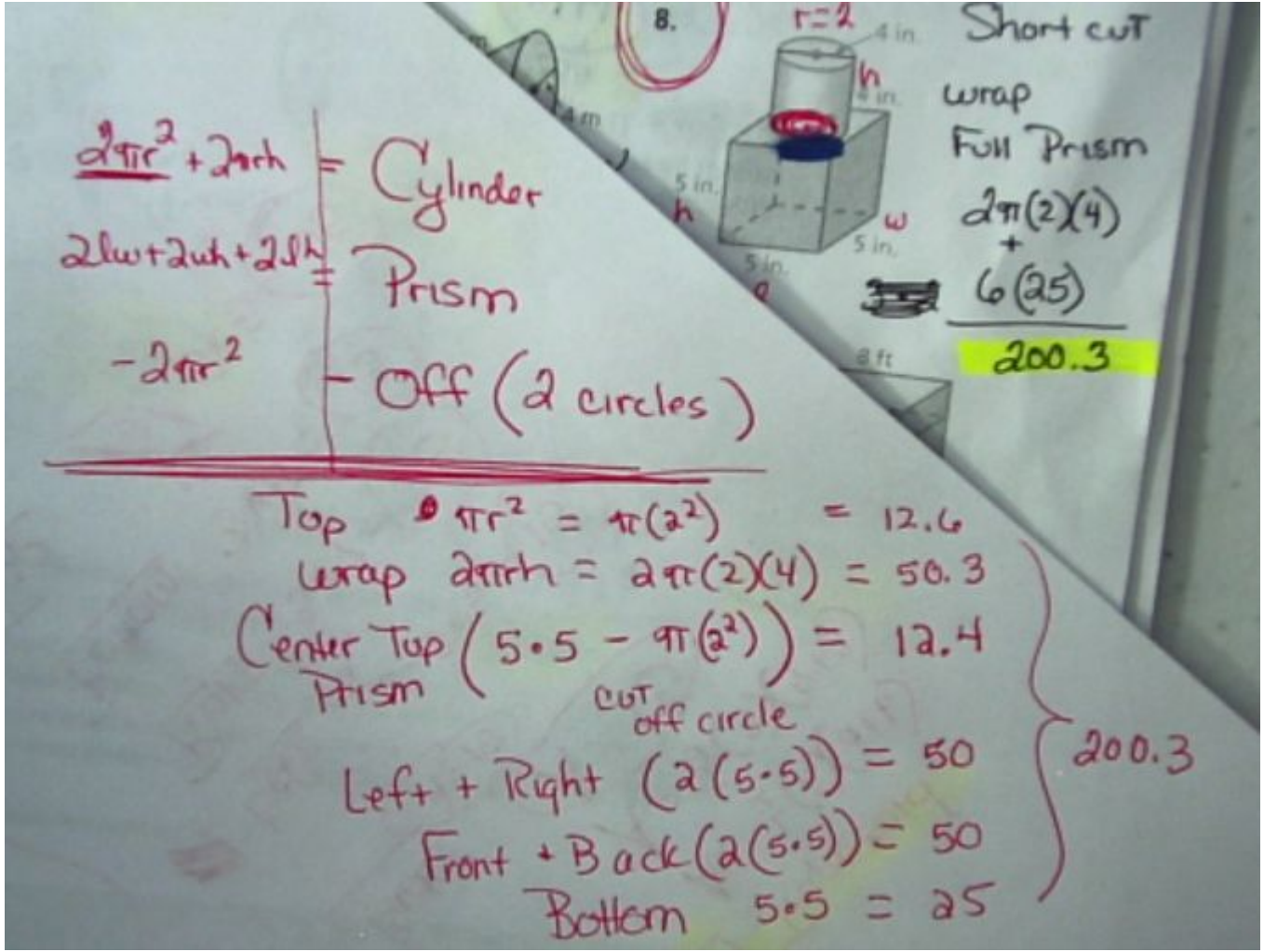
8

$8 \cdot 8 + 4(8 \cdot 9) =$

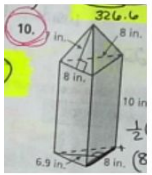
17) A cone with diameter 10 in and a slant height of 13 in.

18) A square prism measuring 8 km along each edge of the base and 9 km tall.


up the composite solid. Then find
answers to the nearest tenth.
3.
4 cm
5 cm
3 cm
5 cm
115
120
Prism
Prism
365
Composite Solids
120
cm²
Front:
Trapezoid
A = ½(h)(a+b)
A = ½(3)(7+3)
Back:
A = 15
A = 15
Left
3*5 = 15
Right
5*7 = 35
Bottom
3*5 = 15
Top
15
5
5*5 = 25


8.
r=2
4 in.
h
4 in.
5 in.
h
w
5 in.
5 in.
8 ft
Short cut
wrap
Full Prism
2π(2)(4)
+
6(25)
200.3
2πr² + 2πrh = Cylinder
2lw + 2wh + 2lh = Prism
- 2πr² - Off (2 circles)
Top πr² = π(2²) = 12.6
wrap 2πrh = 2π(2)(4) = 50.3
Center Top Prism (5·5 - π(2²)) = 12.4
cut off circle
Left + Right (2(5·5)) = 50
Front + Back (2(5·5)) = 50
Bottom 5·5 = 25
200.3

Day 5 Review -- TEST on Day 6 on surface area



Face

Pyramid $3\left(\frac{1}{2} \cdot 8 \cdot 7\right)$

Prism $3\left(8 \cdot 10\right)$

Triangle Base $1\left(\frac{1}{2} \cdot 6.9 \cdot 8\right)$

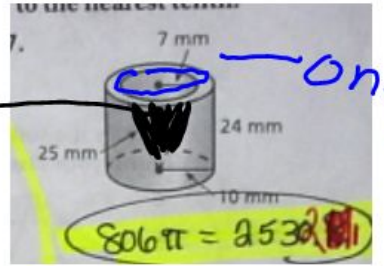
Total $351.6\ in^2$

#10 of the last pg 286

Work it out face by face of the figure

#17 worksheet --- use colors to see the parts (Faces)

Cylinder − Cone



one circle off to open

inside wall

inside wall wrap

$2\pi r^2 + 2\pi r h$

$2\pi(10^2) + 2\pi(10)(24) - \pi(7)^2 + \pi r\ell$ $\pi(7)(25)$

circle