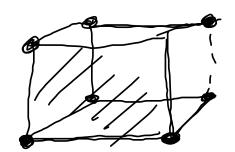
UPComing dutes

- 1) 31d Exam will be Posted 04/28th due date : Discuss (05/12.)*
- (2) Review for final Entire month of May.
- 3) Final Will be Postal after 3rd Exam.
- (4) Study old Exams for Final.

\$13.2 Patterns and Surface Aren.

Poly hedra



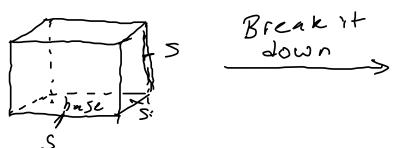
Cabe: type of Prigm.

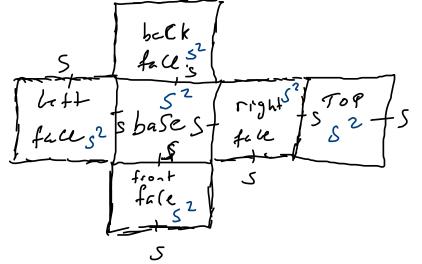
What Is Surface Area?

The Surface Area of a Solid Shape is the total Area of the outer Surface of the Shape.

The Common way to find Surface Area is by breaking down the Soild Shape into two dimensional shapes and their area and addem up.

Ex/ what is the Surface Area of a Cube? Cabe NOT TO Scale



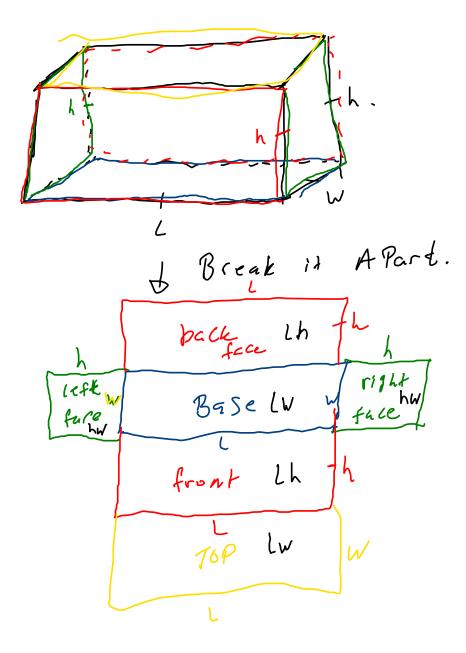


Total Surface Area

Topt baset lateral faces.

What if You just want Sides for Surface Area?

Rectangular Prism.



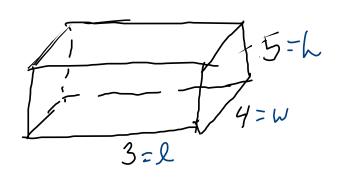
Total Surface Area.

Top + base, + Sides Lw + Lw + hw + hw + Lh + Lh.

21w + 2hw + 2lh.

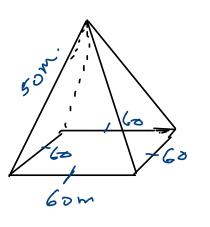
Pg 59/

7. What is the surface area of a closed box (rectangular prism) that is 4 ft wide, 3 ft deep, and 5 ft tall?

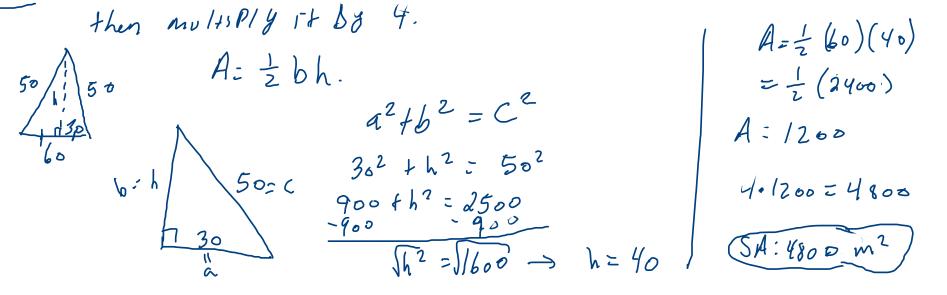


*
$$2Lw + 2hw + 2Lh$$
.
 $2(3)(4) + 2(5)(4) + 2(3)(5)$
 $24 + 40 + 30$
 $94 + t^2$

8. A right pyramid has a square base with sides 60 m long. The distance from one vertex on the base to the apex of the pyramid (along an edge) is 50 m. Determine the surface area of the pyramid (not including the base).



Game Plan? Find area of one A then multiply it by 4.



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

$$36^{2} + h^{2} = 50^{2}$$

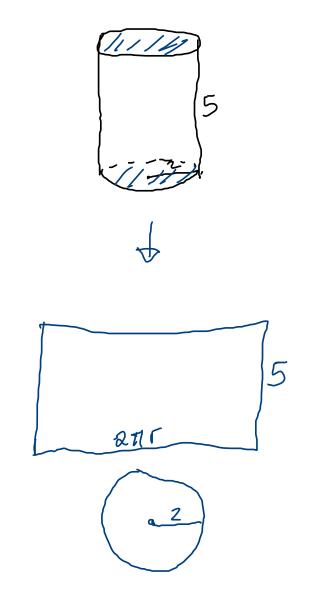
$$900 + h^{2} = 2500$$

$$-900$$

$$h^{2} = 1600$$

120601

(ylinder: Find the Surface area (not including the base) of a (Ylinder W/ radius 29 and hieth 5000.



SA = (QT-2)(5)

SA = 41.5

SA = 20 71 Cm2.

SA = 63 cm2.

If bases were included.

Side: 63.

FOP3 Pottom=211 r2 = 2π(2)2 = 8π = 25-1.

11. A cone is to be made from a circle of radius 3 cm (for the base) and a quarter-circle (for the lateral portion). Determine the radius of the quartercircle.

we have two Pieces.

Circonferate of bottom = $\frac{1}{4}$ Circonferace of Easter Circle. $\frac{2\pi(3)}{6\pi} = \frac{1}{4}2\pi\tau$ | $\frac{12=\Gamma}{6\pi}$ | radius of quarter circle 1-5 12.

$$\frac{2\pi(3)}{6\pi} = \frac{1}{4}2\pi\Gamma$$

$$6\pi = \frac{1}{2}\pi\Gamma$$

$$6 = \frac{1}{2}\Gamma$$