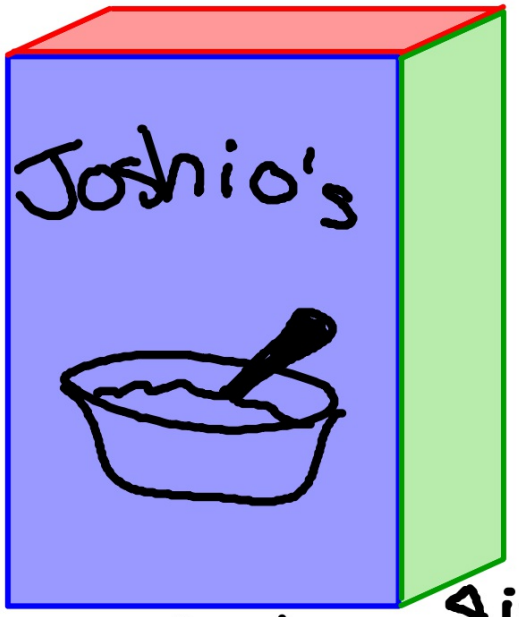
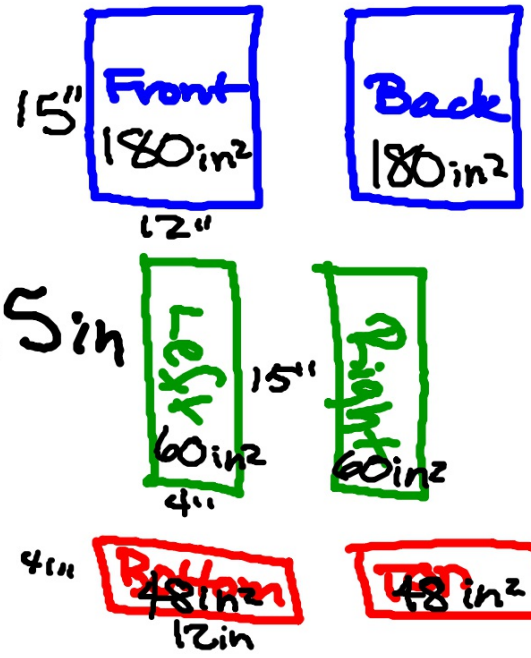
March 29, 2012

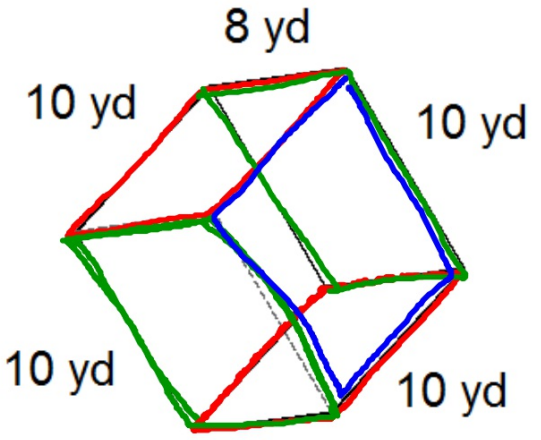
M7H

3/29 - Surface Area of Prisms and Pyramids





$180+180+60+60+48+48=576\text{in}^2$

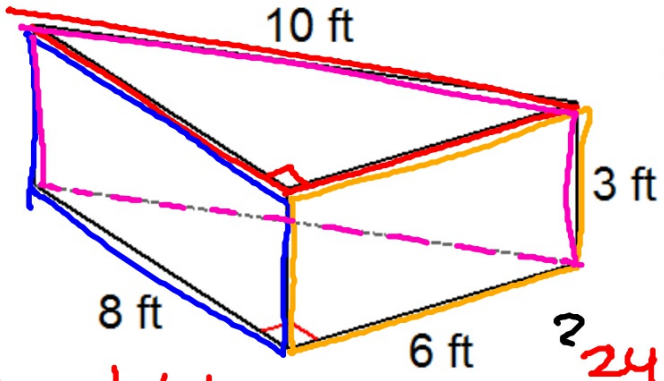


$2(10 \times 8) = 160$

$2(10 \times 8) = 160$

$2(10 \times 10) = 200$

$520\ yd^2$



Cheesecake Box

5 faces

$A = \frac{1}{2}bh$

$= \frac{1}{2} 6 \cdot 8$

$= 24 \text{ ft}^2$

$A = LW$

$= 8 \cdot 3$

$= 24$

$A = LW$

$= 6 \cdot 3$

$= 18$

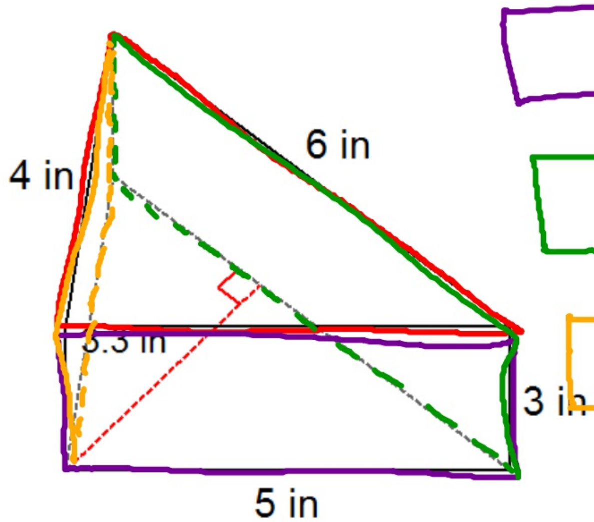
$A = LW$

$= 3 \cdot 10$

$= 30$

24 Top
24 Bottom } Same Shape
24 Left
18 Right
+ 30 Back

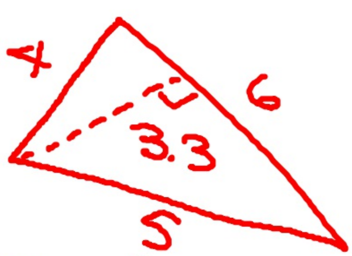
120 ft²



5 × 3 = 15 in²

6 × 3 = 18 in²

4 × 3 = 12 in²



2 of these

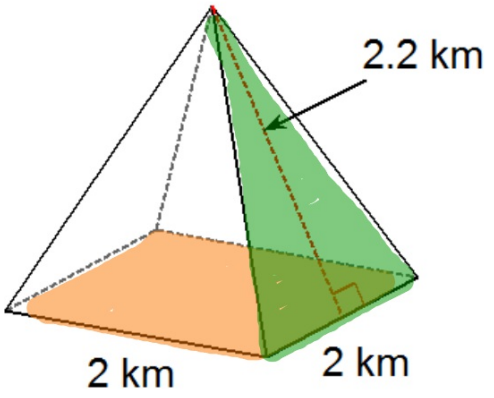
$A = \frac{1}{2}bh$

$= \frac{1}{2}(6 \times 3.3)$

$= \frac{1}{2}(19.8)$

$= 9.9 \text{ in}^2$

15
18
12
9.9
9.9
64.8 in²



Square base

$A = LW$

Triangle sides (x4)

$A = \frac{1}{2}bh$

$A = 2 \cdot 2$

$= 4$

$A = \frac{1}{2}bh$

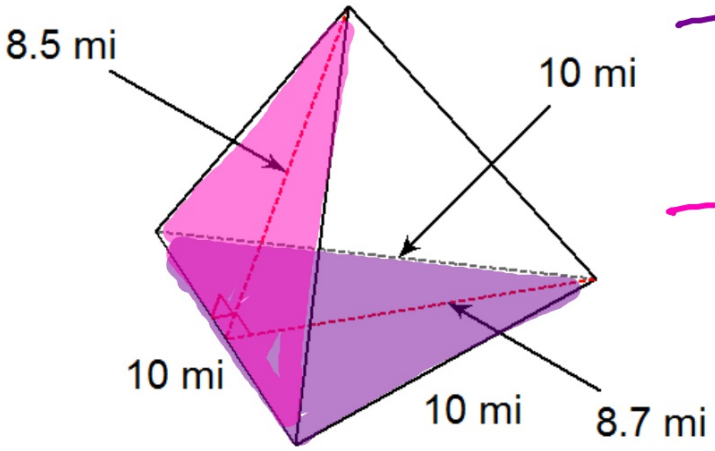
$= \frac{1}{2}(2 \times 2.2)$

$= 2.2$

$4 + 4(2.2)$

$= 4 + 8.8$

$= 12.8 \text{ km}^2$



Triangle Base

$A = \frac{1}{2}bh$

Triangle Sides (x3)

$A = \frac{1}{2}bh$

$A = \frac{1}{2}bh$

$= \frac{1}{2}(10 \times 8.7)$

$= 435$

$A = \frac{1}{2}bh$

$= \frac{1}{2}(10 \times 8.5)$

$= 42.5$

$43.5 + 3(42.5)$

$= 43.5 + 127.5$

$= 171 \text{ mi}^2$

Homework

Gold Geometry WS4

Due Friday