

5-24-18

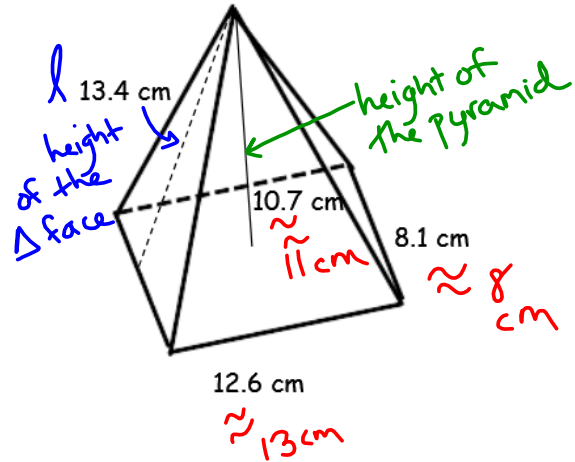
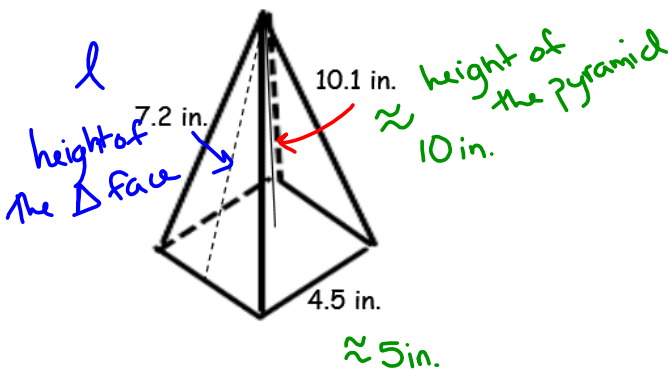
Aim: SWBAT review.

HW: 2-D & 3-D Assessment tomorrow (Open notes)
Final Review Packet due Tuesday

Do Now:

Name: _____ Date: _____

Pyramids



Be sure to write a formula, show your substitution and label your answer with the correct units.

Exact Volume	Estimated Volume	Exact Volume	Estimated Volume
$V = \frac{1}{3} Bh$ $V = \frac{1}{3} (4.5 \cdot 4.5)(10.1)$ $V = 68.175 \text{ in.}^3$	$V = \frac{1}{3} Bh$ $V \approx \frac{1}{3} (5 \cdot 5)(10)$ $V \approx 83\frac{1}{3} \text{ in.}^3$	$V = \frac{1}{3} Bh$ $V = \frac{1}{3} (12.6 \cdot 8.1)(10.7)$ $V = 364.014 \text{ cm}^3$	$V = \frac{1}{3} Bh$ $V \approx \frac{1}{3} (13 \cdot 8)(11)$ $V \approx 381\frac{1}{3} \text{ cm}^3$

Be sure to show your work step-by-step and label your answer with the correct units.

Exact Surface Area	Exact Surface Area
$SA = B + \frac{1}{2} Pl$ $SA = (4.5 \cdot 4.5) + \frac{1}{2} (4.5 + 4.5 + 4.5 + 4.5)(7.2)$ $SA = 20.25 + \frac{1}{2} (18)(7.2)$ $SA = 20.25 + 64.8$ $SA = 85.05 \text{ in.}^2$	$SA = B + \frac{1}{2} Pl$ $SA = (12.6 \cdot 8.1) + \frac{1}{2} (12.6 + 8.1 + 12.6 + 8.1)(13.4)$ $SA = 102.06 + \frac{1}{2} (41.4)(13.4)$ $SA = 102.06 + 277.38$ $SA = 379.44 \text{ cm}^2$

Estimated SA

$$SA = B + \frac{1}{2} Pl$$

$$SA \approx (5 \cdot 5) + \frac{1}{2} (5 + 5 + 5 + 5)(7)$$

$$SA \approx 25 + \frac{1}{2} (20)(7)$$

$$SA \approx 25 + 70$$

$$SA \approx 95 \text{ in.}^2$$

Estimated SA

$$SA = B + \frac{1}{2} Pl$$

$$SA \approx (13 \cdot 8) + \frac{1}{2} (13 + 8 + 13 + 8)(13)$$

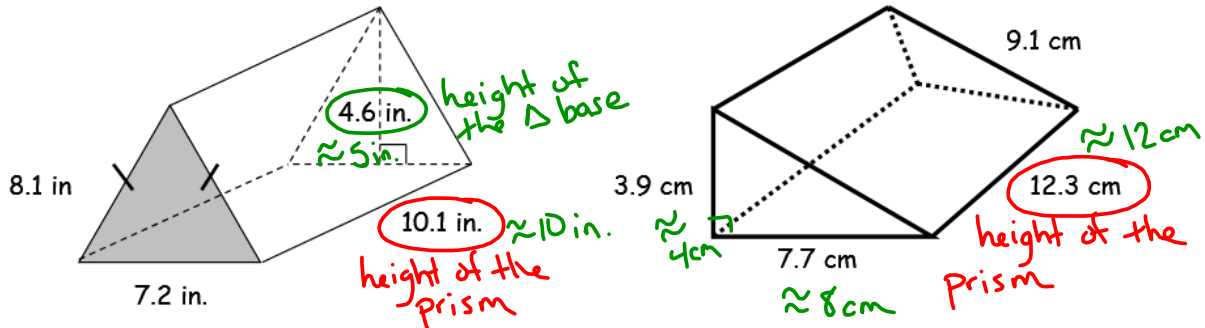
$$SA \approx 104 + \frac{1}{2} (42)(13)$$

$$SA \approx 104 + 273$$

$$SA \approx 377 \text{ cm}^2$$

Name: _____ Date: _____

Triangular Prisms



Be sure to write a formula, show your substitution and label your answer with the correct units.

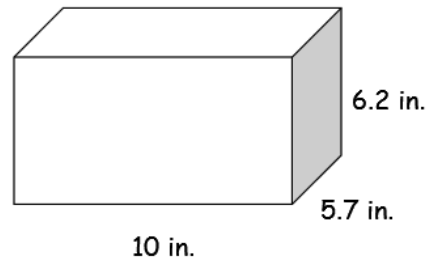
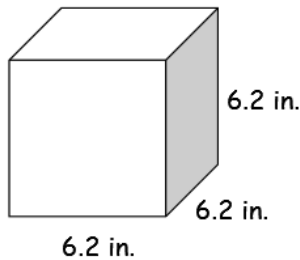
Exact Volume	Estimated Volume	Exact Volume	Estimated Volume
$V = Bh$ $V = \left(\frac{7.2 \cdot 4.6}{2}\right)(10.1)$ $V = (16.56)(10.1)$ $V = 167.256 \text{ in.}^3$	$V = Bh$ $V \approx \left(\frac{7.5}{2}\right)(10)$ $V \approx 175 \text{ in.}^3$	$V = Bh$ $V = \left(\frac{7.7 \cdot 3.9}{2}\right)(12.3)$ $V = 184.6845 \text{ cm}^3$	$V = Bh$ $V \approx \left(\frac{8.4}{2}\right)(12)$ $V \approx 192 \text{ cm}^3$

Be sure to show your work step-by step and label your answer with the correct units.

Exact Surface Area	Exact Surface Area
$SA = 2B + Ph$ $SA = 2\left(\frac{7.2 \cdot 4.6}{2}\right) + (7.2 + 8.1 + 8.1)(10.1)$ $SA = 33.12 + 236.34$ $SA = 269.46 \text{ in.}^2$	$SA = 2B + Ph$ $SA = 2\left(\frac{7.7 \cdot 3.9}{2}\right) + (7.7 + 3.9 + 9.1)(12.3)$ $SA = 30.03 + 254.61$ $SA = 284.64 \text{ cm}^2$
Estimated Surface Area	Estimated Surface Area
$SA = 2B + Ph$ $SA \approx 2\left(\frac{7.5}{2}\right) + (7 + 8 + 8)(10)$ $SA \approx 35 + 230$ $SA \approx 265 \text{ in.}^2$	$SA = 2B + Ph$ $SA \approx 2\left(\frac{8.4}{2}\right) + (8 + 4 + 9)(12)$ $SA \approx 32 + 252$ $SA \approx 284 \text{ cm}^2$

Name: _____ Date: _____

Rectangular Prisms & Cubes



Be sure to write a formula, show your substitution and label your answer with the correct units.

Exact Volume	Estimated Volume	Exact Volume	Estimated Volume
$V = Bh$ $V = (6.2 \cdot 6.2)(6.2)$ $V = 238.328 \text{ in.}^3$	$V = Bh$ $V \approx (6 \cdot 6)(6)$ $V \approx 216 \text{ in.}^3$	$V = Bh$ $V = (10 \cdot 5.7)(6.2)$ $V = 353.4 \text{ in.}^3$	$V = Bh$ $V \approx (10 \cdot 6)(6)$ $V \approx 360 \text{ in.}^3$

Be sure to write a formula, show your substitution and label your answer with the correct units.

Exact Surface Area	Exact Surface Area
$SA = 2B + Ph$ $SA = 2(6.2 \cdot 6.2) + (6.2 + 6.2 + 6.2 + 6.2)(6.2)$ $SA = 76.88 + 153.76$ $SA = 230.64 \text{ in.}^2$	$SA = 2B + Ph$ $SA = 2(10 \cdot 5.7) + (10 + 10 + 5.7 + 5.7)(6.2)$ $SA = 114 + 194.68$ $SA = 308.68 \text{ in.}^2$
Estimated Surface Area	Estimated Surface Area
$SA = 2B + Ph$ $SA \approx 2(6 \cdot 6) + (6 + 6 + 6 + 6)(6)$ $SA \approx 72 + 144$ $SA \approx 216 \text{ in.}^2$	$SA = 2B + Ph$ $SA \approx 2(10 \cdot 6) + (10 + 6 + 10 + 6)(6)$ $SA \approx 120 + 192$ $SA \approx 312 \text{ in.}^2$