

5-7-19

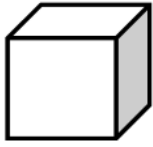
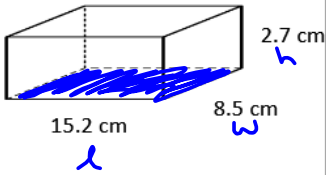
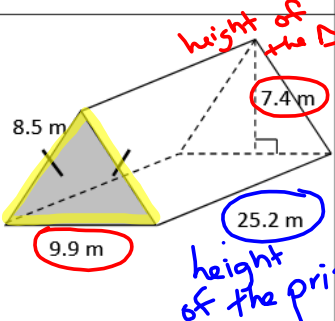
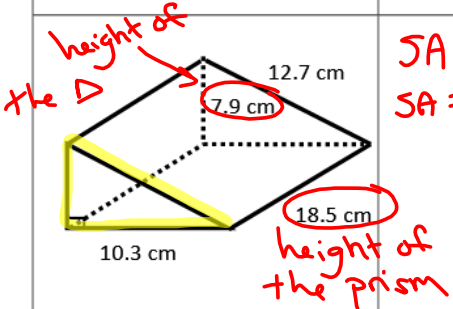
Aim: SWBAT calculate the actual and estimated surface area of prisms and pyramids.

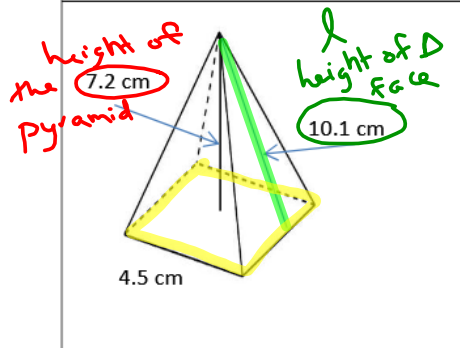
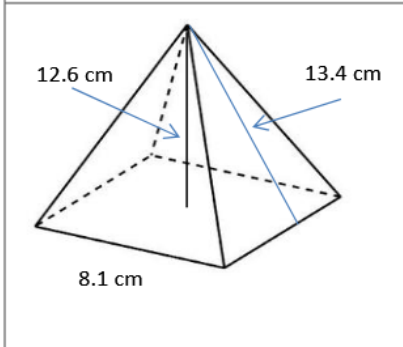
HW: Finish Packet Page 11 - 12

Test Friday

Do Now: Let's continue

Find the exact and estimated surface area of each figure, algebraically.

	Actual Surface Area	Estimated Surface Area
 <p>11.4 cm</p>	$SA = 6s^2$ $SA = 6 \cdot (11.4)^2$ $SA = 779.76 \text{ cm}^2$	$SA = 6s^2$ $SA \approx 6 \cdot 11^2$ $SA \approx 726 \text{ cm}^2$
 <p>15.2 cm 8.5 cm 2.7 cm</p>	$SA = 2lw + 2lh + 2wh$ $SA = 2(8.5)(15.2) + 2(15.2)(2.7) + 2(8.5)(2.7)$ $SA = \quad + \quad +$	
 <p>8.5 m 9.9 m 7.4 m 25.2 m</p> <p>height of the <math>\Delta</math> height of the prism</p>	$SA = 2B + Ph$ $SA = 2\left(\frac{9.9 \cdot 7.4}{2}\right) + (9.9 + 9.9 + 25.2)(25.2)$ $SA = 2(36.63) + (26.9)(25.2)$ $SA = 73.26 + 677.88$ $SA = 751.14 \text{ m}^2$	
 <p>10.3 cm 12.7 cm 7.9 cm 18.5 cm</p> <p>height of the <math>\Delta</math> height of the prism</p>	$SA = 2B + Ph$ $SA = 2\left(\frac{10.3 \cdot 7.9}{2}\right) + (12.7 + 10.3 + 18.5)(18.5)$	

	Actual Surface Area	Estimated Surface Area
 <p>height of the pyramid 7.2 cm height of <math>\Delta</math> face 10.1 cm 4.5 cm</p>	$SA = B + \frac{1}{2}Pl$ $SA = (4.5 \cdot 4.5) + \frac{1}{2}(1.5 + 4.5 + 4.5 + 4.5)(10.1)$ $SA = 20.25 + \frac{1}{2}(18)(10.1)$ $SA = 20.25 + 90.9$ $SA = 111.15 \text{ cm}^2$	
 <p>12.6 cm 13.4 cm 8.1 cm</p>		