1. Finish the Practice Test
   - Cake question

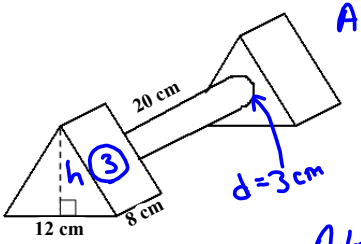
2. Review the solution to the two triangular prisms and a cyclinder

3. Quiz

4. Work on chapter review questions

Two IDENTICAL EQUILATERAL triangular prisms are joined by a cylinder. The equilateral triangles have a side length of 12 cm, and the rectangular sides have a length of 8 cm. The cylinder has a diameter of 3 cm and a length of 20 cm. Determine the surface area of the composite object to the nearest square centimetre.

NOTE: You will have to use the Pythagorean Theorem to determine the height of the equilateral triangles.



$A(\text{Cylinder}) = 2\pi rh$
$= 2\pi(1.5)(20)$
$= 60\pi \text{ cm}^2$

$h^2 = 12^2 - 6^2$
$= 144 - 36$
$= 108$
$h = \sqrt{108}$
$= 10.4 \text{ cm}$

$A_{\text{triangle}} = \frac{bh}{2} \times 4$
$= \frac{12(10.4)}{2} \times 4$
$= 249.6 \text{ cm}^2$

③ $A_{\text{rectangle}} = 12 \times 8 \times 6$
$= 576 \text{ cm}^2$

$\text{Overlap} = 2\pi r^2$
$= 2\pi(1.5)^2$
$= 4.5\pi$

$A_{\text{total}} = 60\pi + 249.6 + 576 - 4.5\pi$
$= 55.5\pi + 825.6$
$= 1000 \text{ cm}^2$

Quiz....

PREPARATION FOR UNIT 1 TEST

MMS9
PAGE 44: Read
PAGE 45: #4, 5, 6, and 8
PAGE 46: #11, 12, 13, 14, 15, and 16
PAGE 47: #17 and #19
PAGE 48: #1 to #6

Extra Practice 4 Worksheet #2, 4