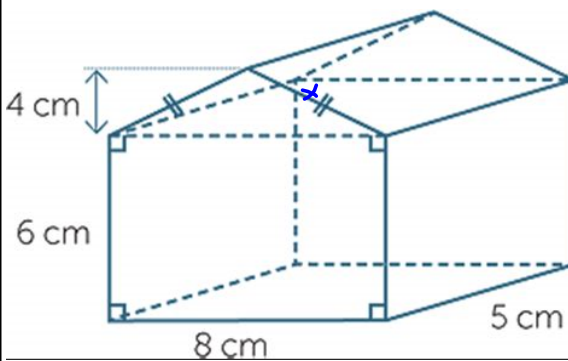


Find the surface area of this model house.
Include the bottom.



Bottom

A front/back
 $= 8 \times 6 \times 2$
 $= 96 \text{ cm}^2$

A sides = $5 \times 6 \times 2$
 $= 60 \text{ cm}^2$

A bottom = 5×8
 $= 40 \text{ cm}^2$ 196

Top

A triangle = $\frac{8 \times 4 \times 2}{2}$
 $= 32 \text{ cm}^2$



$c^2 = a^2 + b^2$
 $x^2 = 4^2 + 4^2$
 $= 16 + 16$
 $= 32$
 $x = \sqrt{32}$
 $= 5.6$

A roof = $bh \times 2$
 $= 5 \times 5.6 \times 2$
 $= 56 \text{ cm}^2$

88

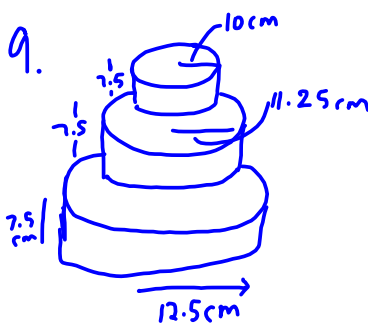
A total = $196 + 88$
 $= 284 \text{ cm}^2$

Nov 7-3:28 PM

Problems with the homework?

$A = 2\pi r^2 + 2\pi rh$

Page 41 6, 8 & 9



Top

$A = \pi r^2 + 2\pi rh$
 $= \pi (10)^2 + 2\pi (10)(7.5)$
 $= 100\pi + 150\pi$
 $= 250\pi \text{ cm}^2$

Middle

$A = \pi r^2 + 2\pi rh$
 $= \pi (11.25)^2 + 2\pi (11.25)(7.5)$
 $= 126.5625\pi + 168.75\pi$
 $= 295.3125\pi \text{ cm}^2$

Overlap = $100\pi + 126.5625\pi$
 $= 226.5625\pi$

Bottom

$A = \pi r^2 + 2\pi rh$
 $= \pi (12.5)^2 + 2\pi (12.5)(7.5)$
 $= 156.25\pi + 187.5\pi$
 $= 343.75\pi \text{ cm}^2$

A total = $250\pi + 295.3125\pi$
 $+ 343.75\pi - 226.5625\pi$
 $= 662.5\pi$
 $= 2081.3 \text{ cm}^2$

Nov 8-8:04 AM

CONCEPT REINFORCEMENT:

MMS9

PAGE 40: #3, 4 and 5

PAGE 41: #6 (count bottom), 8 (no bottom but have to paint overhang) and 9 (no bottoms)

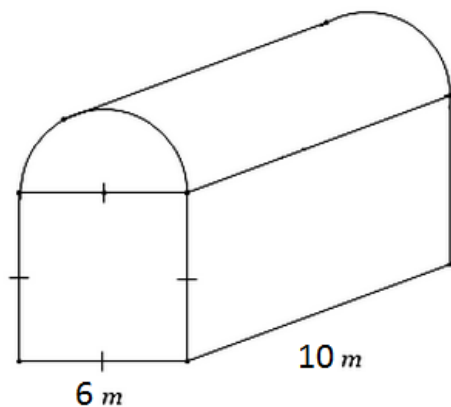
PAGE 42: #10, 11 (no bottom) and 13

PAGE 43: #14 (no bottom) and 15 (the cylinder is solid, not hollow)

Homework: Page 42 11 & 13

Nov 8-8:04 AM

Find the surface area.



Nov 7-3:31 PM