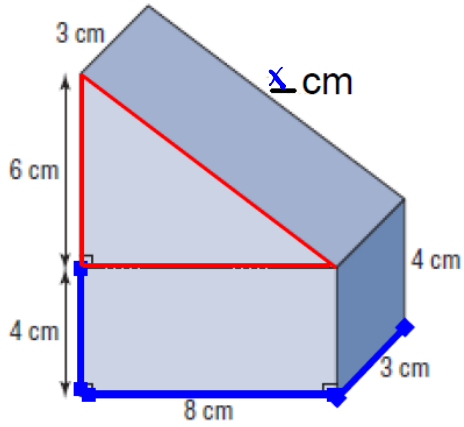
Find the surface area.




$c^2 = a^2 + b^2$

$x^2 = 6^2 + 8^2$

$= 36 + 64$

$= 100$

$x = \sqrt{100}$

$= 10\text{cm}$

Box

$A_{front/back} = bh \times 2 = (8)(4) \times 2 = 64\text{cm}^2$

$A_{sides} = bh \times 2 = (3)(4) \times 2 = 24\text{cm}^2$

$A_{bottom} = bh = (8)(3) = 24\text{cm}^2$

Triangular Prism

$A_{triangles} = \frac{bh}{2} \times 2 = \frac{(8)(6)}{2} \times 2 = 48\text{cm}^2$

$A_{(slant)} = bh = (3)(10) = 30\text{cm}^2$

$A_{back} = bh = 6(3) = 18\text{cm}^2$

$A_{total} = 64 + 24 + 24 + 48 + 30 + 18$

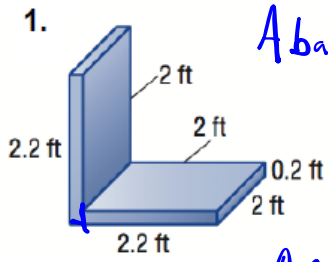
$= 208\text{cm}^2$

7

## Page 5 of Practice Test questions 1-3

- find surface area (not volume)

1.




$A_{back} = \underset{\text{back}}{(2.2)(2)} + \underset{\text{top edge}}{2(0.2)} + \underset{\text{side edge} \times 2}{2.2(0.2)} + \underset{\text{front}}{(2)(2)}$

$= 4.4 + 0.4 + 0.88 + 4$

$= 9.68\text{ ft}^2$

$A_{front} = \underset{\text{top}}{(2)(2)} + \underset{\text{bottom}}{2.2(2)} + \underset{\text{side edge}}{(2)(0.2) \times 2} + (2)(0.2)$

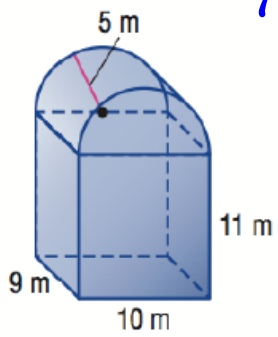
$= 4 + 4.4 + 0.8 + 0.4$

$= 9.6\text{ ft}^2$

$A_{TOTAL} = 9.68 + 9.6$

$= 19.28\text{ ft}^2$

2.

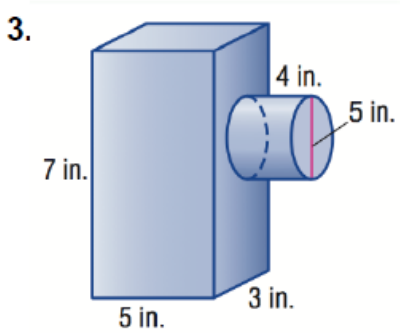



$A \frac{1}{2}$ cylinder $= (2\pi r^2 + 2\pi rh) \div 2$

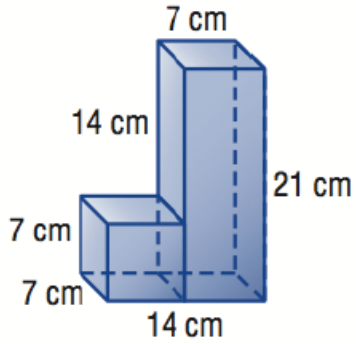
$= \pi r^2 + \pi rh$

$=$

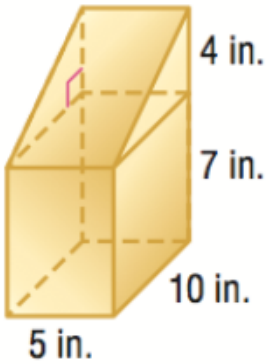
3.



**4.**




**5.**



## Attachments

v__sa_of_composite_figures.pdf