

CONCEPT REINFORCEMENT:

MMS9

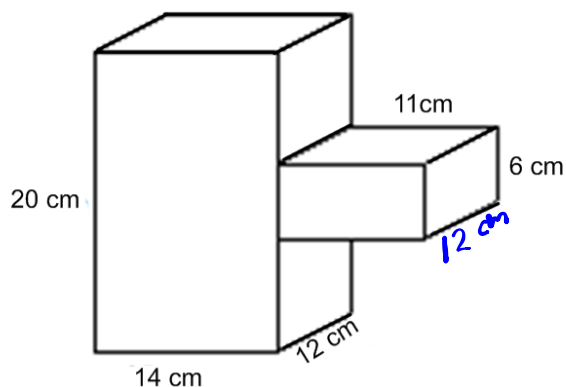
PAGE 40: #3, 4 and 5

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

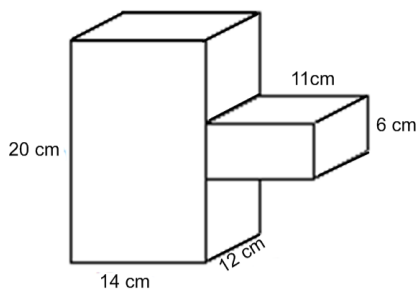
PAGE 42: #10, 11 (no bottom) and 13

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

Calculate the surface area of the following composite object. Please show ALL WORK.



Calculate the surface area of the following composite object. Please show **ALL WORK**.



Large Box

$$A_{\text{front/back}} = bh \times 2$$

$$= (14)(20) \times 2$$

$$= 560 \text{ cm}^2$$

$$A_{\text{top/bottom}} = bh \times 2$$

$$= (14)(12) \times 2$$

$$= 336 \text{ cm}^2$$

$$A_{\text{sides}} = bh \times 2$$

$$= (12)(20) \times 2$$

$$= 480 \text{ cm}^2$$

Overlap = 2 small rectangles

$$= bh \times 2$$

$$= (6)(12) \times 2$$

$$= 144 \text{ cm}^2$$

Small Box

$$A_{\text{front/back}} = bh \times 2$$

$$= (11)(6) \times 2$$

$$= 132 \text{ cm}^2$$

$$A_{\text{sides}} = bh \times 2$$

$$= (6)(12) \times 2$$

$$= 144 \text{ cm}^2$$

$$A_{\text{top/bottom}} = bh \times 2$$

$$= (11)(12) \times 2$$

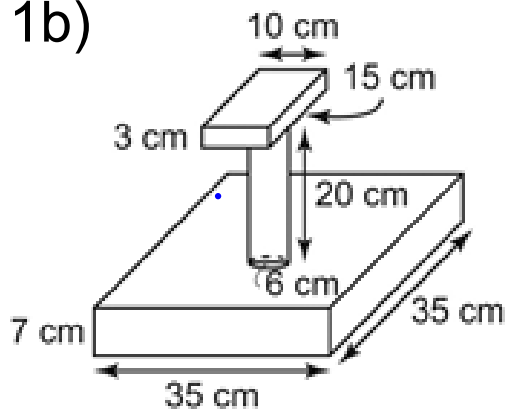
$$= 264 \text{ cm}^2$$

$$A_{\text{total}} = 560 + 336 + 480 + 132 + 144 + 264 - 144$$

$$= 1772 \text{ cm}^2$$

Lesson 1.4

1b)



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

$$= 2\pi(3)^2 + 2\pi(3)(20)$$

$$= 18\pi + 120\pi$$

$$= 138\pi$$