

p. 542-543



$$\begin{aligned} a^2 + 8^2 &= 10^2 \\ a^2 + 64 &= 100 \\ a^2 &= 36 \\ a &= 6 \end{aligned}$$

8.  $h = 4$  (Pythagorean Thm)

9.  $b_1 = 6 + 6 = 12$

$$b_1 = 6 + 3 = 9$$

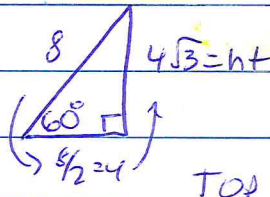
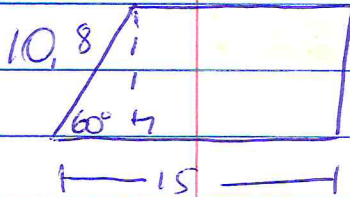
$$A = \frac{1}{2}(8)(6+12)$$

$$A = \frac{1}{2}(4)(9+6)$$

$$A = 4(18)$$

$$A = 2 \cdot 15 = 30 \text{ ft}^2$$

$$A = 72 \text{ m}^2$$



$$A = \frac{1}{2}(4\sqrt{3})(11+15)$$

$$A = 2\sqrt{3}(26) = 52\sqrt{3} \text{ ft}^2$$

$$\text{Top of Rectangle} = 15 - 4 = 11 = b_1$$

11.  $d_1 = 8 + 8 = 16$

12.  $d_1 = 2 + 4 = 6$

13.  $d_1 = 6$

$$d_2 = 8 + 2 = 10$$

$$d_2 = 3 + 3 = 6$$

$$d_2 = 4 + 4 = 8$$

$$A = \frac{1}{2}(16)(10)$$

$$A = \frac{1}{2}(6)(6)$$

$$A = \frac{1}{2}(6)(8)$$

$$A = 8 \cdot 10 = 80 \text{ in}^2$$

$$A = 3 \cdot 6 = 18 \text{ m}^2$$

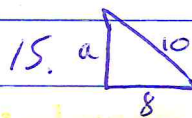
$$A = 3 \cdot 8 = 24 \text{ ft}^2$$

14.  $d_1 = 20 \cdot 2 = 40$

$$d_2 = 30 \cdot 2 = 60$$

$$A = \frac{1}{2}(40)(60)$$

$$A = 20 \cdot 60 = 1200 \text{ ft}^2$$



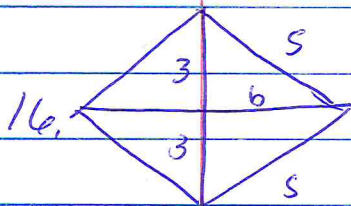
$$\begin{aligned} a^2 + 8^2 &= 10^2 \\ a^2 + 64 &= 100 \\ a^2 &= 36 \\ a &= 6 \end{aligned}$$

$$d_1 = 8 \cdot 2 = 16$$

$$d_2 = 6 \cdot 2 = 12$$

$$A = \frac{1}{2}(16)(12)$$

$$A = 8 \cdot 12 = 96 \text{ in}^2$$



$$3^2 + b^2 = 5^2$$

$$b^2 + 4 = 25$$

$$b^2 = 16$$

$$b = 4$$

$$d_1 = 6$$

$$d_2 = 2 \cdot 4 = 8$$

$$A = \frac{1}{2}(6)(8)$$

$$A = 3 \cdot 8 = 24 \text{ m}^2$$