

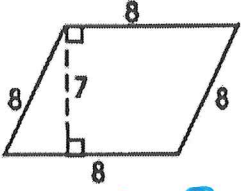
Name: Key Date: _____

Recalling Area, Finding Missing Length Figures

Homework

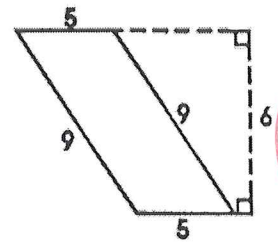
Find the area of each figure.

1.



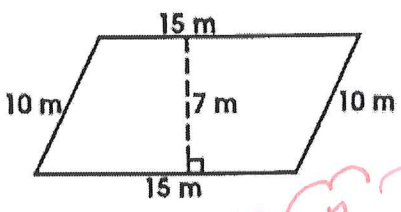
$$A = 8 \cdot 7$$
$$A = 56 \text{ u}^2$$

2.



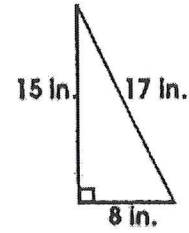
$$A = 5 \cdot 6$$
$$A = 30 \text{ u}^2$$

3.



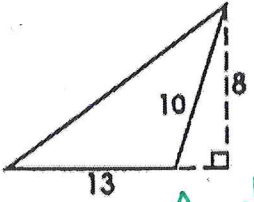
$$A = 15 \cdot 7$$
$$A = 105 \text{ m}^2$$

4.



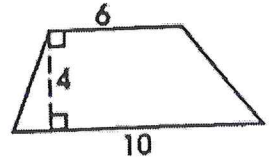
$$A = \frac{1}{2} 8 \cdot 15$$
$$A = 60 \text{ in}^2$$

5.



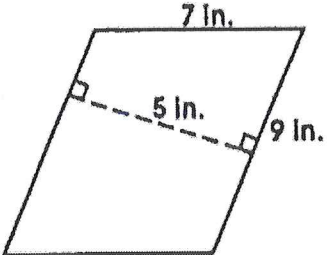
$$A = \frac{1}{2} 13 \cdot 8$$
$$A = 52 \text{ units}^2$$

6.



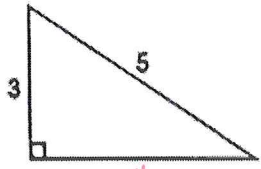
$$A = \frac{1}{2} (10 + 6) 4$$
$$A = 32 \text{ units}^2$$

7.



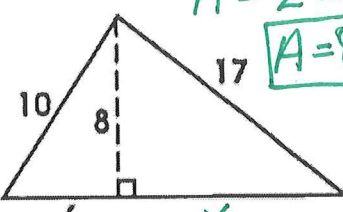
$$A = 9 \cdot 5$$
$$A = 45 \text{ in}^2$$

8.



by
Pyth.
thm

$$A = \frac{1}{2} 4 \cdot 3$$
$$A = 6 \text{ units}^2$$

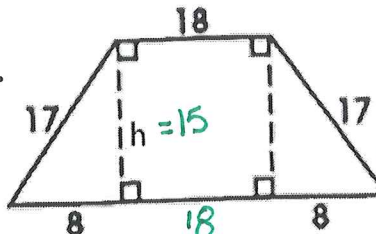
9. 

$$A = \frac{1}{2} 21 \cdot 8$$

$$A = 84 \text{ units}^2$$

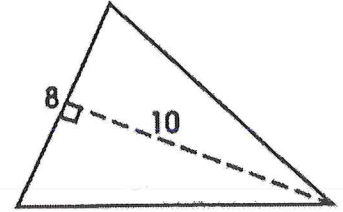
$$x^2 + 8^2 = 17^2$$

$$x = 15$$

10. 

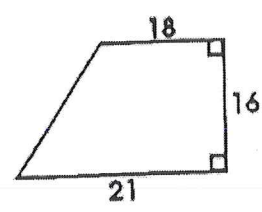
$$A = \frac{1}{2} (18 + 34) 15$$

$$A = 390 \text{ units}^2$$

11. 

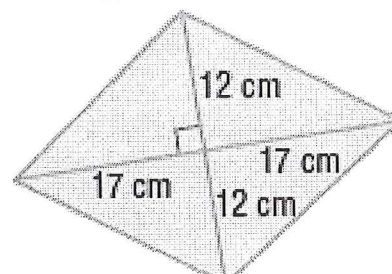
$$A = \frac{1}{2} 8 \cdot 10$$

$$A = 40 \text{ units}^2$$

12. 

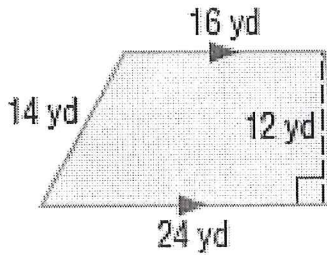
$$A = \frac{1}{2} (21 + 18) 16$$

$$A = 312 \text{ units}^2$$

13. 

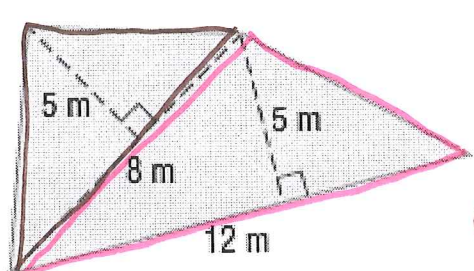
$$A = \frac{1}{2} 24 \times 17 + \frac{1}{2} 24 \times 17$$

$$A = 408 \text{ cm}^2$$

14. 

$$A = \frac{1}{2} (24 + 16) 12$$

$$A = 240 \text{ yd}^2$$

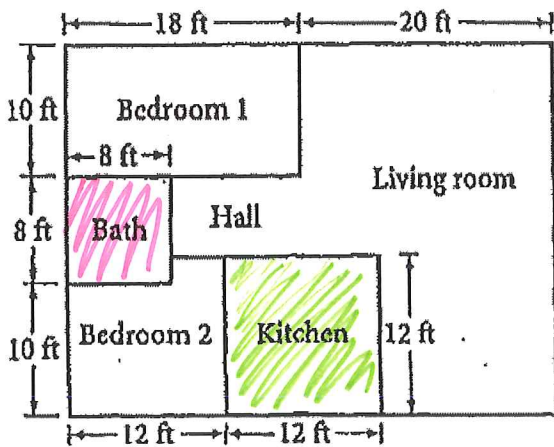
15. 

$$A = \frac{1}{2} (12 \cdot 5)$$

$$A = \frac{1}{2} (8 \cdot 5)$$

$$A_T = 50 \text{ m}^2$$

16. The Sibleys are tiling their kitchen and bathroom. Find the area of the bathroom and kitchen. If each tile is 6 inches by 6 inches, how many tiles will the Sibleys need?

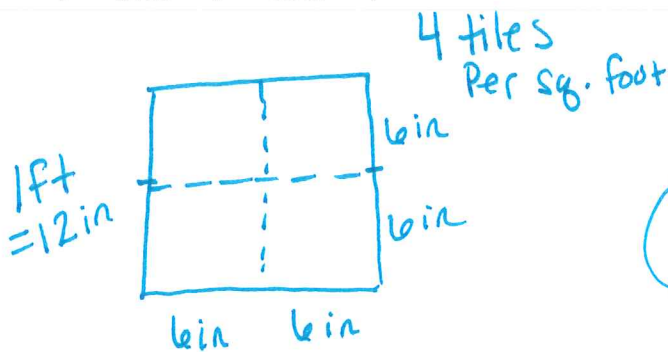


$$\text{Bath} = 8 \cdot 8 = 64 \text{ ft}^2$$

$$\text{Kitchen} = 12 \cdot 12 = 144 \text{ ft}^2$$

$$\text{total Area: } 64 + 144$$

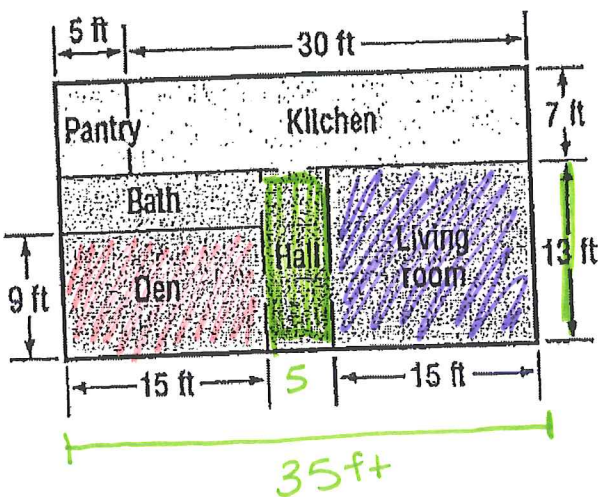
$$\text{total area: } 208 \text{ ft}^2$$



$$208 \text{ ft}^2 \times 4$$

$$\text{total tiles} = 832 \text{ tiles}$$

17. The Smiths are planning to carpet part of their house. The carpet they plan to buy is sold by the square yard. Find the amount of carpeting needed to cover the living room, den, and hall if all are rectangular rooms. (3 ft = 1 yd)



$$\text{Living room: } 13 \times 15 = 195 \text{ ft}^2$$

$$\text{Den: } 9 \times 15 = 135 \text{ ft}^2$$

$$\text{Hall: } 13 \times 5 = 65 \text{ ft}^2$$

$$\text{total area: } 395 \text{ ft}^2$$

Convert to yards:

$$\frac{395}{9} =$$

$$43.8 \text{ yd}$$

of carpeting

$$\boxed{3 \cdot 3 = 9 \text{ ft}^2} \quad 1 \text{ yd} = 3 \text{ ft}$$

$$1 \text{ yd} = 3 \text{ ft}$$