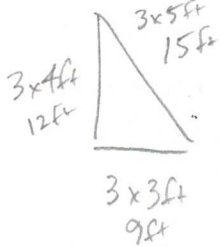


Find perimeter and area of the following figures (problem 1 and 2):

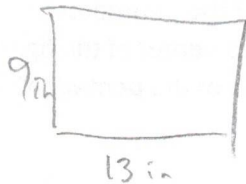
- 6 1. (Right) Triangle with sides 9 feet, 12 feet, and 15 feet. Show your work (formula and calculations). Make sure to include units. (Perimeter 2 points; Area 4 points)



$$P = 9ft + 12ft + 15ft = 36ft$$

$$A = \frac{bh}{2} = \frac{(9ft)(12ft)}{2} = 54ft^2$$

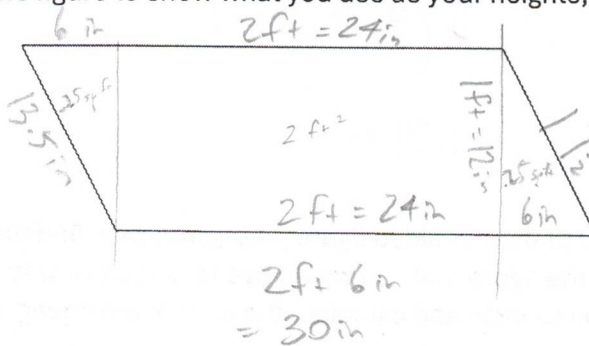
- 4 2. Rectangle with sides 9 inches, and 13 inches. Show your work (formula and calculations). Make sure to include units. (Perimeter 2 points; Area 2 points)



$$P = 9in + 9in + 13in + 13in = 44in$$

$$A = bh = (9in)(13in) = 117in^2$$

- 8 3. The figure below is drawn at a scale of 1" = 1'. Use a scale or ruler to measure the sides (and height) of the figure (parallelogram), then find the perimeter (2 points) and area (4 points). Draw on the figure to show what you use as your heights, bases, etc. (2 points)



$$P = 30in + 30in + 13.5in + 13.5in = 87in$$

$$A = A_R + 2A_T$$

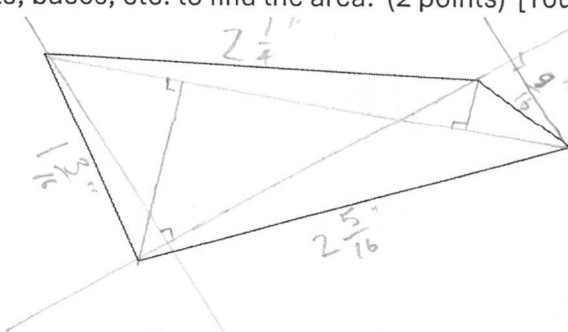
$$= 288in^2 + 2(36in^2) = 360in^2$$

$$= 2.5ft^2$$

$$A_R = (24in)(12in) = 288in^2 = 2ft^2$$

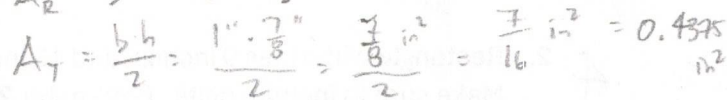
$$A_T = \frac{1}{2}bh = \frac{(6in)(12in)}{2} = 36in^2$$

- 4 4. Use a scale or ruler to measure the sides (and height) of the figure (quadrilateral), then find the perimeter (2 points). Draw on the figure and label it to show what you would use as your heights, bases, etc. to find the area. (2 points) [You do not need to calculate the area.]



$$P = 2\frac{1}{4} + \frac{9}{16} + 2\frac{5}{16} + 1\frac{5}{16} = 5\frac{21}{16}$$

$$5\frac{21}{16} = 6\frac{5}{16}$$



- $$= 1.71875 \text{ m}^2$$

