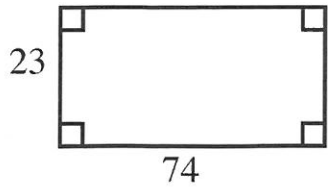


May 8th-14th Homework

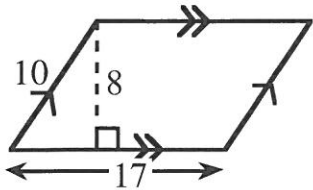
Name: Answers

1. Find the perimeter and area of the following figures:



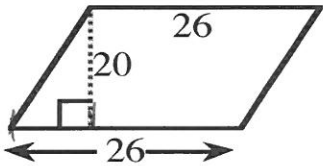
Perimeter: 194 units

Area: 1,702 units²



Perimeter: 54 units

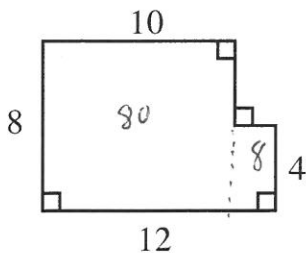
Area: 136 units²



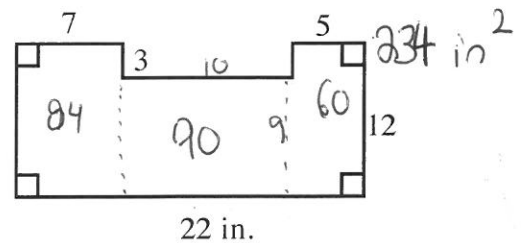
Area: 520 units²

Perimeter: not enough info

2. Find the area of the following figures.

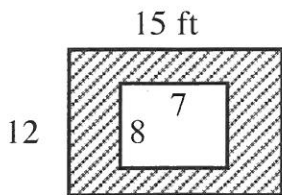


88 units²



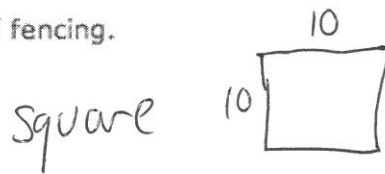
234 in²

3. Find the area of the shaded region. (The figures are rectangles.)



$$\begin{array}{r} \text{[shaded rectangle]} - \text{[unshaded rectangle]} \\ 180 - 56 = 124 \text{ ft}^2 \end{array}$$

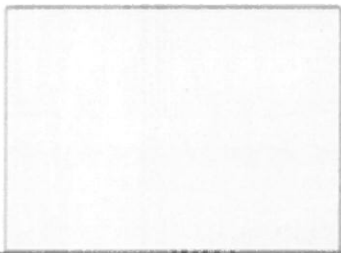
Imagine you had 40 one-metre sections of fencing.



$$\text{Max area} = 100 \text{ m}^2$$

What is the largest rectangular area of land you could fence off?

Now imagine you could build your fence up against a wall, so you only need to use the fence for three sides of the enclosure:



WALL

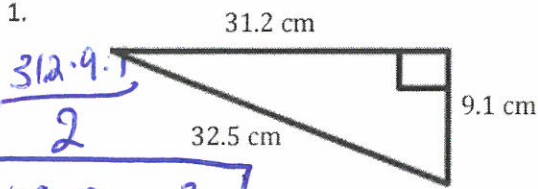
↓ should be a square

$$\frac{40}{3} = 13 \frac{1}{3} \text{ m each side}$$

What is the largest area you can fence off now?

$$\approx 177.8 \text{ m}^2$$

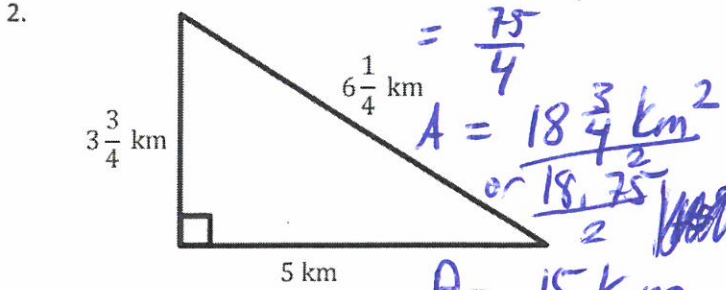
Calculate the area of each right triangle below. Note that the figures are not drawn to scale.



$$A = \frac{31.2 \cdot 9.1}{2}$$

$$A = 142.0 \text{ cm}^2$$

$$P = 72.8 \text{ cm}$$



$$A = \frac{15}{4} \times \frac{5}{1}$$

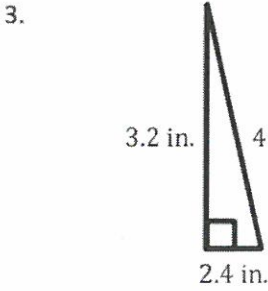
$$= \frac{75}{4}$$

$$A = 18 \frac{3}{4} \text{ km}^2$$

$$\text{or } \frac{18.75}{2}$$

$$P = 15 \text{ km}$$

$$A = 9.375 \text{ km}^2$$

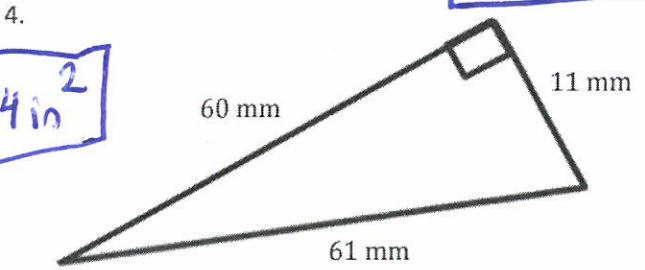


$$A = \frac{3.2 \cdot 2.4}{2}$$

$$A = \frac{7.68 \text{ in}^2}{2}$$

$$A = 3.84 \text{ in}^2$$

$$P = 9.6 \text{ in}$$

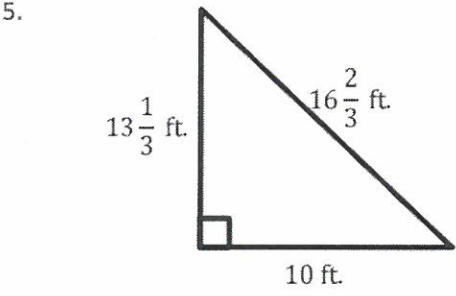


$$A = \frac{60 \cdot 11}{2}$$

$$A = \frac{660 \text{ mm}^2}{2}$$

$$A = 330 \text{ mm}^2$$

$$P = 132 \text{ mm}$$



$$A = \frac{40}{3} \cdot \frac{30}{3}$$

$$= \frac{400}{3}$$

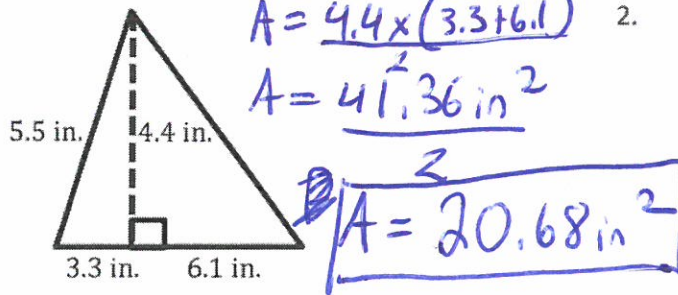
$$A = \frac{133 \frac{1}{3} \text{ ft}^2}{2} \text{ or } \frac{133.3}{2}$$

$$P = 40 \text{ ft}$$

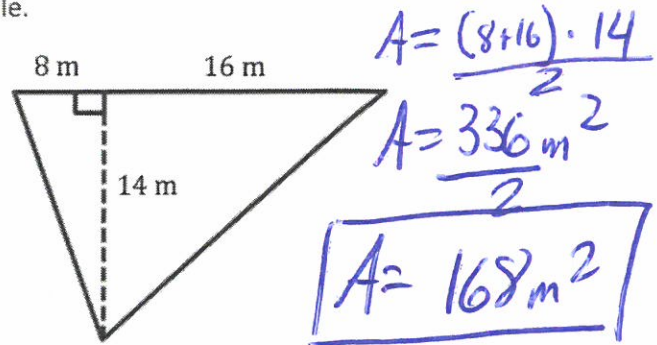
$$A = 66 \frac{2}{3} \text{ ft}^2 \text{ or } 66.\bar{6} \text{ ft}^2$$

Calculate the area of each shape below. Figures are not drawn to scale.

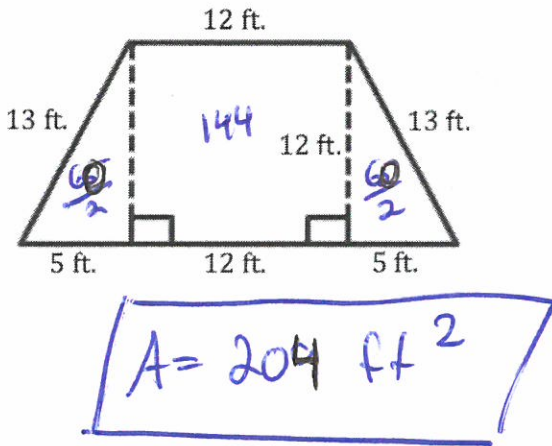
1.



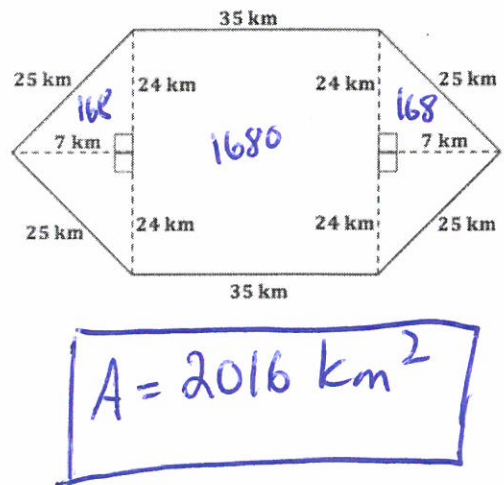
2.



3.



4.



5. Immanuel is building a fence to make an enclosed play area for his dog. The enclosed area will be in the shape of a triangle with a base of 48 m. and an altitude of 32 m. How much space does the dog have to play?

