

Name: ..... Class: .....

Rectangular measurement word problems

1. John has a photo frame with the size of 8 feet long and 3.5 feet wide. What is the area of the photo frame in square inches?



2. Aluha has a rectangular swimming pool at his home, the pool is 54 feet long and 35 feet wide. What is the area of the pool in square yards?



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Find the area or missing side length of a rectangle

1. John has a photo frame with the size of 8 feet long and 3.5 feet wide. What is the area of the photo frame in square inches?

Let's write down the given information.

Length of the photo frame = 8 feet but in inches:

if 1 foot = 12 inches

then 8 feet =  $12 \times 8 = 96$  inches

Width of the photo frame = 3.5 feet but in inches:

if 1 foot = 12 inches

then 3.5 feet =  $12 \times 3.5$  inches = 42 inches

So, area of the photo frame = Length  $\times$  Width

$96 \text{ in} \times 42 \text{ in} = 4,032$  square inches

Therefore, the area of the photo frame = 4,032 square inches.



2. Aluha has a rectangular swimming pool at his home, the pool is 54 feet long and 35 feet wide. What is the area of the pool in square yards?

Let's write down the given information.

length of the swimming pool = 54 feet but in yards:

if 3 feet = 1 yard,

then, 54 feet =  $54/3 = 18$  yards

Width of the swimming pool = 35 feet.

if 3 feet = 1 yard, then 35 feet =  $35/3 = 11.67$  yards

So, area of the swimming pool = length  $\times$  width

$18 \text{ yards} \times 11.67 \text{ yards} = 210 \text{ yards}^2$

Therefore, the area of the pool = 210 yards<sup>2</sup>.

