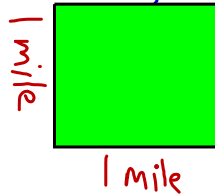


How many acres are there in a square mile?

First - What is a square mile?

* Square area with side length 1 mile.



Second - What is an acre?

* 1 acre is 43,560 square feet
→ also written as ft.^2

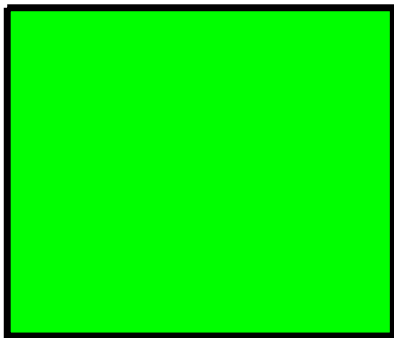
Third - Since acres are in ft.^2 ,
need to convert mile^2 into ft.^2 .

* how many feet in a mile?

1 mile = 5,280 feet

(next page)

How many ft^2 in a mile^2 ?



5,280 ft.

5,280 ft.

$$\begin{array}{r} \textcircled{0} \textcircled{2} \textcircled{6} \textcircled{4} \\ 5280 \\ * 5280 \\ \hline \end{array}$$

bank the
2 zeros
& bring
at the
end!

$$\begin{array}{r} 4224 \\ 1056- \\ + 2640-- \\ \hline \end{array}$$

$$\underline{\underline{27,878,400 \text{ miles}^2}}$$

Now that we have
 ft^2 in a mile^2 , divide
by the number of ft^2
in an acre

~~43560~~ $\overline{)27878400}$
* you may eliminate corresponding
zeros from both divisor &
dividend (Note: Do not bring back the
zeros)

4356 $\overline{)2787840}$

* try this again and
see answer on next page!!

$$\begin{array}{r}
 4356 \overline{)2787840} \\
 \underline{-26136} \downarrow \\
 17424 \\
 \underline{-17424} \downarrow \\
 00
 \end{array}$$

Note:
 Start on
 upper left
 hand side of
 page for
 long division

* There are 640 acres in
 one square mile

* an acre is $\frac{1}{640}$ of a mi^2

In Europe, they
measure the area
of property in
hectares?

1 Hectare = 2.471 acres
or
10,000 meters²

How many hectares are there
in a square mile?

1 meters = 3.2808399 feet [More about calculator. </help/features.html>](#)

$$10,000 \text{ meters}^2 = 107,500 \text{ ft}^2$$

$$107,500 \overline{) 27,878,400}$$

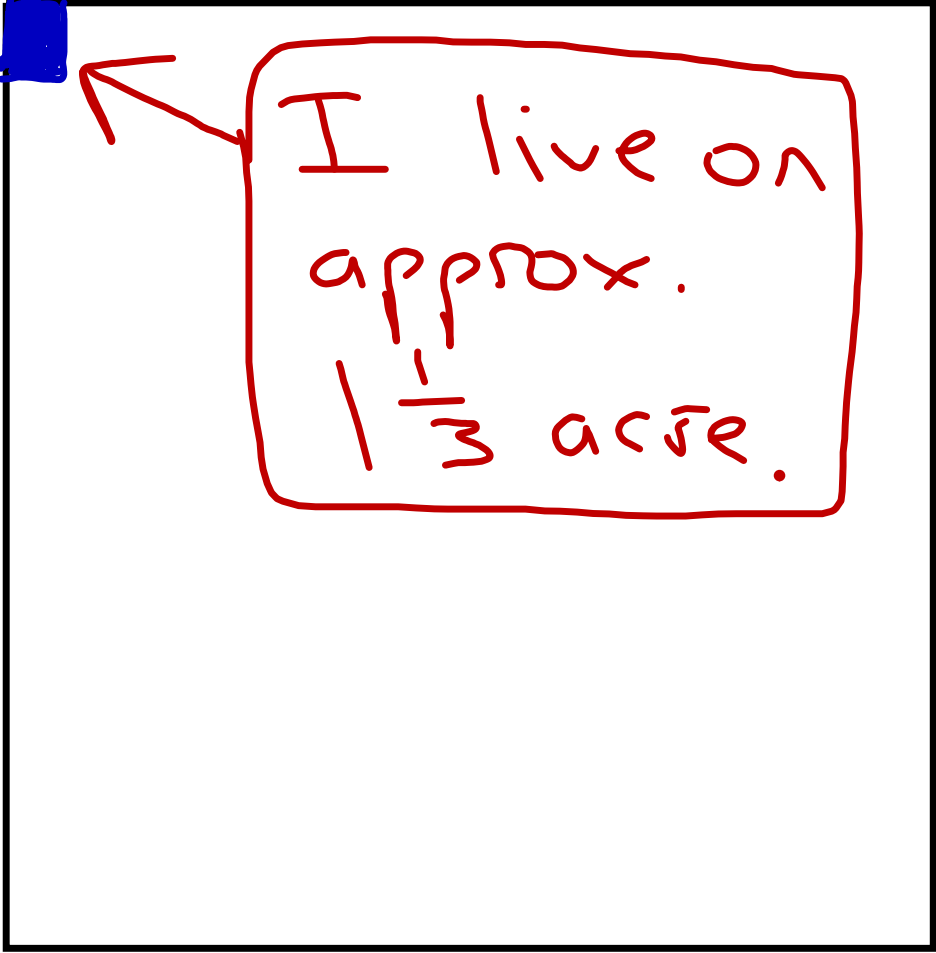
259.3

$$\begin{array}{r} 1075 \overline{) 278784} \\ - 2150 \downarrow \\ \hline 6378 \\ - 5375 \downarrow \\ \hline 10034 \\ - 9675 \\ \hline 3590 \end{array}$$

259.3 hectares
in a square mile

Practice

— if below is a mile^2 , how big is your property in comparison to mile^2 ?



I live on
approx.
 $1\frac{1}{3}$ acre.