

Determine the Square Root of each of the following:

a) 49

$$= 7$$

b) 121

$$= 11$$

c) 1.44

$$\sqrt{\frac{144}{100}}$$
$$= \frac{12}{10}$$

d) $\frac{9}{64}$

$$= \frac{3}{8}$$

Which of the following are perfect squares?

a) 169

$$= 13$$
$$\checkmark$$

b) 0.9

$$\frac{9}{10}$$
$$X$$

c) 0.25

$$\frac{25}{100}$$
$$= \frac{5}{10}$$
$$\checkmark$$

d) 0.0016

$$\frac{16}{10000}$$
$$\frac{4}{100}$$
$$\checkmark$$

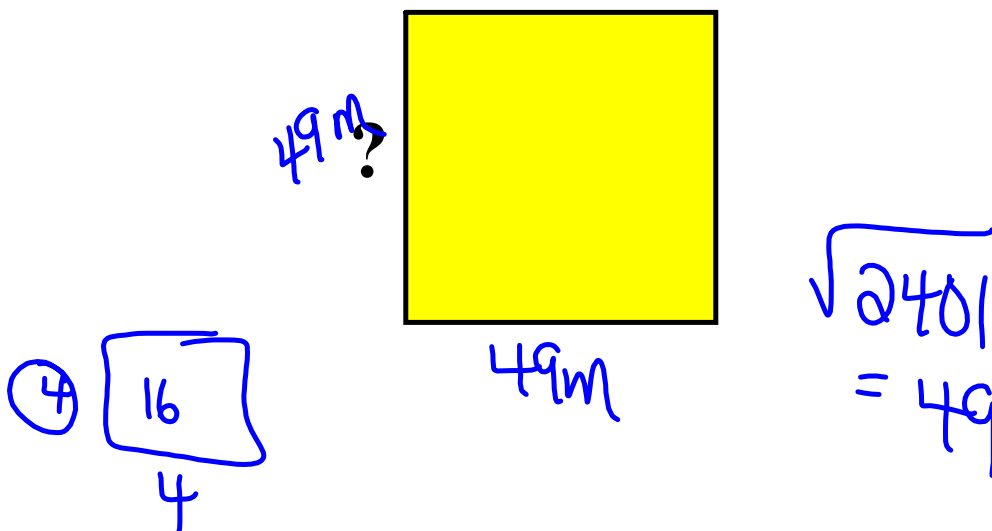
$$0.016$$
$$\frac{16}{1000} X$$

Calculate the number whose square root is 12

$$\sqrt{x} = 12$$

$$\sqrt{144} = 12$$

Determine the side length of the square whose area is 2401m^2



Estimate the square root without using your calculator

a) $\frac{3}{11}$

$1 \leftarrow 3 \rightarrow 4$
 $9 \leftarrow 11 \rightarrow 16$
 $\sqrt{11} \approx 3\frac{2}{3}$

b) $\frac{14}{31}$

$9 \leftarrow 14 \rightarrow 16$
 $25 \leftarrow 31 \rightarrow 36$
 $\sqrt{\frac{16}{36}} = \frac{4}{6} = \frac{2}{3}$

c) $\frac{61}{42}$

$49 \leftarrow 61 \rightarrow 64$
 $36 \leftarrow 42 \rightarrow 49$
 $\sqrt{\frac{64}{36}} = \frac{8}{6} = \frac{4}{3}$

$1^2 = 1$
 $2^2 = 4$
 $3^2 = 9$
 \vdots
 16
 25
 36
 49
 64
 81

