

**Worksheet 1.6: Solving Radicals | Chapter 1 Lesson 6**

*Learning Goal: I can find square roots and cube roots 8.EE.2.*

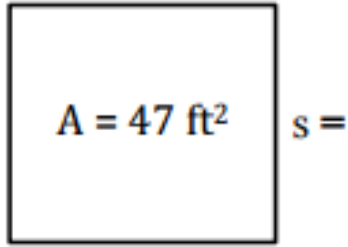
1. List the first 12 perfect square numbers.
2. What is the side length of a square with an area of 9 units<sup>2</sup>?
3. What is the area of a square with a side length of 2 units?
4. Complete the following table.

Area (square units)	Length of Side (units)
4	
49	
144	
	10
2	
8	
	$\sqrt{15}$
	$\sqrt{41}$
	1
	9
	$s$
$A$	

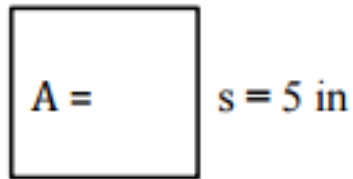
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5. Find the missing measurements of the squares:

a.



b.



6. Simplify the following:

a.  $\sqrt{9}$

d.  $\sqrt{4}$

g.  $\sqrt{400}$

b.  $\sqrt{100}$

e.  $\sqrt{144}$

h.  $\sqrt{1600}$

c.  $\sqrt{64}$

f.  $\sqrt{81}$

i.  $\sqrt{2500}$