Powers, Roots and the Pythagorean Theorem

Name:			Date:	
	Learning Goal 7.1		quares and cubes and evaluate	
What is a square?				
A Square Number, or Perfect Square				
What is a prim	e factorization?			
Example				
a. Determine the prime factorization of the following numbers:				
	24	36	81	
b. Which	of these are perfect squ	uares? Explain. c.	For each perfect square, draw t label the sides.	he square and

Example Determine the area of a square picture with side lengths of 14 cm.

A Square Root

Example Use prime factorization to determine $\sqrt{324}$.

Example Determine the square roots of the following values.

a. 1

b. 4

c. 49

d. 81

Example Edgar knows that the square case for his computer game has an area of $144~\rm cm^2$. What is the side length of the case?