Intro to Geometry 1 - Squares, Cubes, and Roots

Check your answers against those on my website as you work! Don't wait until you're done.

List the square and cube of each number:

#	1	2	3	4	5	6	7	8	9	10	11	12
Square												
Cube												

Use the above table to estimate the following values to one decimal place, then check:

Square root of 6 Square root of 30 Square root of 24

Square root of 110 Square root of 52 Square root of 40

Square root of 34 Square root of 11 Square root of 99

Cube root of 9 Cube root of 75 Cube root of 100

Cube root of 23 Cube root of 45 Cube root of 400

Use square roots and cube roots to solve the following algebra problems:

$$A^2 = 16$$

$$B^3 = 27$$

$$C^2 = 31$$

$$D^3 = 49$$

$$E^2 + 7 = 16$$

$$F^2 - 4 = 21$$

$$G^3 - 19 = 45$$

$$2H^2 = 200$$

$$3J^2 - 2 = 190$$

$$2K^3 + 11 = 65$$

$$L^2 + 14^2 = 19^2$$

$$2M^2 - 18 = 16^2$$

$$N^2 - 31 = 8^3$$

What is the area of a square with side length 18cm? What if its side length is 7m?

What is the side length of a square with area 200cm²? What if its area is 15m²?

What is the volume of a cube with side length 10cm? What if its side length is 2m?

What is the side length of a cube with volume 45cm³? What if its volume is 225m³?