

Block: X

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	l	Ч	9	16	25	36	49	64	81	100	121	149
Cube	A NUMBER	ð	27	64	125	216	343	512	729	1000	1331	1728

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

Square root of 6 2.5	Square root of 30 S. S	Square root of 24	4.9
Square root of 110 10.5	Square root of 52 $7.\lambda$	Square root of 40	\$ 6.3
Square root of 34 5.6	Square root of 11 3.3	Square root of 99	9.9
Cube root of 9 2.1	Cube root of 75 4.2	Cube root of 100	Ч.7
Cube root of 23 🤹 🦉 🗎 🖇	Cube root of 45 3.6	Cube root of 400	7.3

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

$\int^{A^2} = \frac{16}{\int}$	B ³ = 27 3√ 3√	$C^2 = 31$	D ³ = <u>49</u> ∛
A = 4	B = 3	C= 5.57	D = 3.66

$E^2 + 7 = 16$	$F^2 - 4 = 21$	G ³ - 19 = 45
-7 -7	+4 +4	+19 +19
ところ	$F^{2} = 25$	$6^3 = 64$
55	1 1	35 35
E = 3	F = 5	6 = 4

$2H^2 = 200$	$3J^2 - 2 = 190$ +2 +2	$2K^3 + 11 = 65$
$H^{2} = 100$ J = J H = 10	$3J^{2} = 192$ = 3 = 3 $J^{2} = 64$ $J^{-} J^{-}$	$2K^{3} = 54$ = 2 $K^{3} = 27$ 35^{-3}
$L^{2} + 14^{2} = 19^{2}_{m}$ $L^{2} = 19^{2} - 19^{2}$ $L^{2} = 361 - 196$ $L^{2} = 165$ $J = 12.85$	J = 8 $2M^{2} - 18 = 16^{2} + 18$ $2M^{2} = 16^{2} + 18$ $2M^{2} = 256 + 18$ $2M^{2} = 274$ = 137 J = 137 J = 137 M = 11.7	$K = 3$ $N^{2} - 31 = 8^{3}$ $+31$ $N^{2} = 8^{3} + 31$ $N^{2} = 512 + 31$ $N^{2} = 543$ $\int - \sqrt{3}$ $N = 23.3$

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?

$$A_{\Box} = S^{2}$$

 $2 \cdot O_{Cn}^{2} = \frac{S^{2}}{J}$
 $J = S^{2}$
 $J = S^$

What is the volume of a cube with side length 10cm? What if its side length is 2m? $\sqrt{1-c^3}$

$$V = 5$$

 $V = (10 \text{ cm})^3$
 $V = (2 \text{ m})^3$
 $V = 8 \text{ m}^3$

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

$$V = s^{3}$$

 $45cn^{3} = s^{3}$
 $3T$
 3