

Roots

Square Roots

1. Describe in your own words how to find the square root ($\sqrt{\quad}$) of a number.

2. Find each of the following ...

a. $\sqrt{25}$

b. $\sqrt{49}$

c. $\sqrt{81}$

d. $\sqrt{64}$

e. $\sqrt{1}$

f. $\sqrt{9}$

g. $\sqrt{36}$

h. $\sqrt{100}$

i. $\sqrt{-25}$

j. $-\sqrt{49}$

k. $\sqrt{-81}$

l. $-\sqrt{64}$

m. $\sqrt{144}$

n. $\sqrt{-9}$

o. $\sqrt{36}$

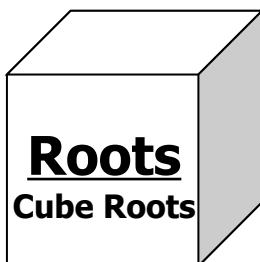
p. $\sqrt{196}$

q. $-\sqrt{25}$

j. $\sqrt{-49}$

k. $-\sqrt{400}$

l. $\sqrt{-64}$



1. Any ideas what "cube root" ($\sqrt[3]{\quad}$) means. Describe in your own words how to find the cube root $\sqrt[3]{\quad}$ of a number. For example, $\sqrt[3]{27}$?

2. Find each of the following ...

a. $\sqrt[3]{125}$

b. $\sqrt[3]{216}$

c. $\sqrt[3]{8}$

d. $\sqrt[3]{729}$

e. $\sqrt[3]{27}$

f. $\sqrt[3]{512}$

g. $\sqrt[3]{343}$

h. $-\sqrt[3]{1000}$

i. $\sqrt[3]{-125}$

j. $-\sqrt[3]{216}$

k. $\sqrt[3]{-8}$

l. $\sqrt[3]{-729}$

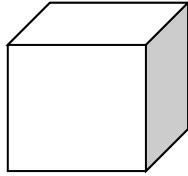
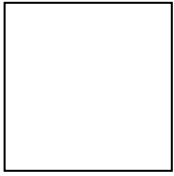
m. $\sqrt[3]{-27}$

n. $\sqrt[3]{-512}$

o. $-\sqrt[3]{343}$

p. $\sqrt[3]{-1000}$

Square Roots and Cube Roots



Examples)

3. $\sqrt{25} =$

because...

4. $\sqrt{36} =$

because...

5. $\sqrt[3]{27} =$

because...

6. $\sqrt[3]{64} =$

because...

Now you try...

7. $\sqrt[3]{125} =$

because...

15. $\sqrt{256} =$

because...

8. $\sqrt[3]{216} =$

because...

16. $\sqrt[3]{1000} =$

because...

9. $\sqrt{361} =$

because...

17. $-\sqrt[3]{512} =$

because...

10. $-\sqrt{225} =$

because...

18. $\sqrt{64} =$

because...

11. $\sqrt{121} =$

because...

19. $\sqrt[3]{64} =$

because...

12. $\sqrt[4]{216} =$

because...

20. $\sqrt[3]{0} =$

because...

13. $\sqrt[3]{8} =$

because...

21. $\sqrt[3]{729} =$

because...

14. $\sqrt{196} =$

because...

22. $\sqrt{-49} =$

because...