

Name: _____

Block: _____

Math 9
Square Roots of Big Numbers / Decimals

Find the square roots of the following numbers without using a calculator. If it is not possible without out a calculator, write “NP” (not possible).

1) $\sqrt{81000000}$

2) $\sqrt{10000000000000000}$

3) $\sqrt{49000}$

4) $\sqrt{12100}$

5) $\sqrt{400000000}$

6) $\sqrt{870000}$

7) $\sqrt{-400}$

8) $\sqrt{1440000000000000000000000000000000}$

Find the cube roots of the following numbers without using a calculator. If it is not possible without out a calculator, write “NP” (not possible).

9) $\sqrt[3]{1000}$

10) $\sqrt[3]{8000000000}$

Find the square roots of the following numbers without using a calculator. If it is not possible without out a calculator, write “NP” (not possible).

11) $\sqrt{0.09}$

12) $\sqrt{0.000064}$

13) $\sqrt{1.69}$

14) $\sqrt{-0.0016}$

15) $\sqrt{0.0000000025}$

16) $\sqrt{14.4}$

17) $\sqrt{0.0001}$

18) $\sqrt{0.0000000000000081}$

Find the cube roots of the following numbers without using a calculator. If it is not possible without out a calculator, write “NP” (not possible).

19) $\sqrt[3]{0.027}$

20) $\sqrt[3]{-0.000064}$

Answers:

1) 9000

2) 10000000

3) NP

4) 110

5) 20000

6) NP

7) NP

8) 1200000000000

9) 10

10) 2000

11) 0.3

12) 0.008

13) 1.3

14) NP

15) 0.00005

16) NP

17) 0.01

18) 0.00000009

19) 0.3

20) -0.04