Math Practice - Grade 8

M2 Exponents, roots, scientific notation - Square roots and cube roots

M2 8.EE.A.1, 8.EE.A.2, 8.EE.A.3, 8.EE.A.4

Name: _____ Date: _____

Find the square root or the cube root. Write the answer in the box.

Example: Find the cube root of 8.

How: The square root of p is the number that squares to p, and the cube root of p is the number that cubes to p. For x squared equals p, x is the square root of p.

Cube root of 8 = 2

1 **Find the cube root of 125.**

Cube root of 125 = ☐

2 **Find the square root of 4.**

Square root of 4 = ☐

3 **Find the positive solution to $x^2 = 49$.**

$x^2 = 49$, x = ☐

4 **Find the positive solution to $x^2 = 256$.**

$x^2 = 256$, x = ☐

5 **Solve $x^3 = 729$.**

$x^3 = 729$, x = ☐

6 **Find the square root of 64.**

Square root of 64 = ☐

7 **Solve $x^3 = 27$.**

$x^3 = 27$, x = ☐

8 **Find the positive solution to $x^2 = 81$.**

$x^2 = 81$, x = ☐

9 **Find the cube root of 343.**

Cube root of 343 = ☐

10 **Solve $x^3 = 125$.**

$x^3 = 125$, x = ☐

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M2 8.EE.A.1, 8.EE.A.2, 8.EE.A.3, 8.EE.A.4

Name: _____ Date: _____

Find the square root or the cube root. Write the answer in the box.

Example: Solve $x^3 = 216$.

How: The square root of p is the number that squares to p, and the cube root of p is the number that cubes to p. For x squared equals p, x is the square root of p.

$x^3 = 216$, x = 6

1 **Find the square root of 9.**

Square root of 9 = ☐

2 **Find the positive solution to $x^2 = 121$.**

$x^2 = 121$, x = ☐

3 **Find the square root of 400.**

Square root of 400 = ☐

4 **Solve $x^3 = 64$.**

$x^3 = 64$, x = ☐

5 **Find the positive solution to $x^2 = 4$.**

$x^2 = 4$, x = ☐

6 **Find the cube root of 512.**

Cube root of 512 = ☐

7 **Find the square root of 144.**

Square root of 144 = ☐

8 **Find the cube root of 729.**

Cube root of 729 = ☐

9 **Find the positive solution to $x^2 = 81$.**

$x^2 = 81$, x = ☐

10 **Find the positive solution to $x^2 = 16$.**

$x^2 = 16$, x = ☐

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M2 8.EE.A.1, 8.EE.A.2, 8.EE.A.3, 8.EE.A.4

Name: _____ Date: _____

Find the square root or the cube root. Write the answer in the box.

Example: Find the cube root of 1000.

How: The square root of p is the number that squares to p, and the cube root of p is the number that cubes to p. For x squared equals p, x is the square root of p.

Cube root of 1000 = 10

1 **Find the square root of 100.**

Square root of 100 = ☐

2 **Find the positive solution to $x^2 = 81$.**

$x^2 = 81$, x = ☐

3 **Find the positive solution to $x^2 = 196$.**

$x^2 = 196$, x = ☐

4 **Find the square root of 4.**

Square root of 4 = ☐

5 **Solve $x^3 = 343$.**

$x^3 = 343$, x = ☐

6 **Find the cube root of 216.**

Cube root of 216 = ☐

7 **Find the positive solution to $x^2 = 400$.**

$x^2 = 400$, x = ☐

8 **Find the positive solution to $x^2 = 289$.**

$x^2 = 289$, x = ☐

9 **Find the positive solution to $x^2 = 9$.**

$x^2 = 9$, x = ☐

10 **Find the cube root of 27.**

Cube root of 27 = ☐