



Solving with Squared and Cubed

Name: _____

Find the positive value of x.

Ex) $x^2 = 36$

$$\sqrt{x^2} = \sqrt{36}$$

$$x = \sqrt{36}$$

1) $x^2 = 1$

2) $x^3 = 125$

3) $x^3 = 1$

4) $x^2 = 4$

5) $x^2 = 144$

6) $x^2 = 121$

7) $x^3 = 729$

8) $x^2 = 25$

9) $x^3 = 216$

10) $x^2 = 100$

11) $x^3 = 27$

12) $x^2 = 49$

13) $x^2 = 81$

14) $x^3 = 1,000$

15) $x^2 = 9$

16) $x^3 = 343$

17) $x^3 = 8$

18) $x^3 = 512$

19) $x^2 = 16$

20) $x^3 = 64$

Answers

Ex. 6

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

11. _____

12. _____

13. _____

14. _____

15. _____

16. _____

17. _____

18. _____

19. _____

20. _____



Solving with Squared and Cubed

Name: **Answer Key**

Find the positive value of x.

Ex) $x^2 = 36$

$$\sqrt{x^2} = \sqrt{36}$$
$$x = \sqrt{36}$$

1) $x^2 = 1$

$$\sqrt{x^2} = \sqrt{1}$$
$$x = \sqrt{1}$$

2) $x^3 = 125$

$$\sqrt[3]{x^3} = \sqrt[3]{125}$$
$$x = \sqrt[3]{125}$$

3) $x^3 = 1$

$$\sqrt[3]{x^3} = \sqrt[3]{1}$$
$$x = \sqrt[3]{1}$$

4) $x^2 = 4$

$$\sqrt{x^2} = \sqrt{4}$$
$$x = \sqrt{4}$$

5) $x^2 = 144$

$$\sqrt{x^2} = \sqrt{144}$$
$$x = \sqrt{144}$$

6) $x^2 = 121$

$$\sqrt{x^2} = \sqrt{121}$$
$$x = \sqrt{121}$$

7) $x^3 = 729$

$$\sqrt[3]{x^3} = \sqrt[3]{729}$$
$$x = \sqrt[3]{729}$$

8) $x^2 = 25$

$$\sqrt{x^2} = \sqrt{25}$$
$$x = \sqrt{25}$$

9) $x^3 = 216$

$$\sqrt[3]{x^3} = \sqrt[3]{216}$$
$$x = \sqrt[3]{216}$$

10) $x^2 = 100$

$$\sqrt{x^2} = \sqrt{100}$$
$$x = \sqrt{100}$$

11) $x^3 = 27$

$$\sqrt[3]{x^3} = \sqrt[3]{27}$$
$$x = \sqrt[3]{27}$$

12) $x^2 = 49$

$$\sqrt{x^2} = \sqrt{49}$$
$$x = \sqrt{49}$$

13) $x^2 = 81$

$$\sqrt{x^2} = \sqrt{81}$$
$$x = \sqrt{81}$$

14) $x^3 = 1,000$

$$\sqrt[3]{x^3} = \sqrt[3]{1,000}$$
$$x = \sqrt[3]{1,000}$$

15) $x^2 = 9$

$$\sqrt{x^2} = \sqrt{9}$$
$$x = \sqrt{9}$$

16) $x^3 = 343$

$$\sqrt[3]{x^3} = \sqrt[3]{343}$$
$$x = \sqrt[3]{343}$$

17) $x^3 = 8$

$$\sqrt[3]{x^3} = \sqrt[3]{8}$$
$$x = \sqrt[3]{8}$$

18) $x^3 = 512$

$$\sqrt[3]{x^3} = \sqrt[3]{512}$$
$$x = \sqrt[3]{512}$$

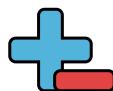
19) $x^2 = 16$

$$\sqrt{x^2} = \sqrt{16}$$
$$x = \sqrt{16}$$

20) $x^3 = 64$

$$\sqrt[3]{x^3} = \sqrt[3]{64}$$
$$x = \sqrt[3]{64}$$

AnswersEx. 61. 12. 53. 14. 25. 126. 117. 98. 59. 610. 1011. 312. 713. 914. 1015. 316. 717. 218. 819. 420. 4



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8) $x^2 = 25$

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10) $x^2 = 100$

11) $x^3 = 27$

12) $x^2 = 49$

Answers

Ex. 6

1. _____

2. _____

3. _____

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