



## Solving with Squared and Cubed

Name: \_\_\_\_\_

Find the positive value of x.

Ex)  $x^3 = 512$

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

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

1)  $x^3 = 343$

2)  $x^2 = 1$

3)  $x^3 = 64$

4)  $x^2 = 49$

5)  $x^2 = 9$

6)  $x^3 = 27$

7)  $x^3 = 1$

8)  $x^3 = 729$

9)  $x^3 = 8$

10)  $x^2 = 144$

11)  $x^3 = 1,000$

12)  $x^2 = 36$

13)  $x^2 = 81$

14)  $x^2 = 16$

15)  $x^3 = 216$

16)  $x^3 = 125$

17)  $x^2 = 4$

18)  $x^2 = 64$

19)  $x^2 = 100$

20)  $x^2 = 25$

AnswersEx. 8

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)  $x^3 = 512$

$$\begin{aligned}\sqrt[3]{x^3} &= \sqrt[3]{512} \\ x &= \sqrt[3]{512}\end{aligned}$$

1)  $x^3 = 343$

$$\begin{aligned}\sqrt[3]{x^3} &= \sqrt[3]{343} \\ x &= \sqrt[3]{343}\end{aligned}$$

2)  $x^2 = 1$

$$\begin{aligned}\sqrt{x^2} &= \sqrt{1} \\ x &= \sqrt{1}\end{aligned}$$

3)  $x^3 = 64$

$$\begin{aligned}\sqrt[3]{x^3} &= \sqrt[3]{64} \\ x &= \sqrt[3]{64}\end{aligned}$$

4)  $x^2 = 49$

$$\begin{aligned}\sqrt{x^2} &= \sqrt{49} \\ x &= \sqrt{49}\end{aligned}$$

5)  $x^2 = 9$

$$\begin{aligned}\sqrt{x^2} &= \sqrt{9} \\ x &= \sqrt{9}\end{aligned}$$

6)  $x^3 = 27$

$$\begin{aligned}\sqrt[3]{x^3} &= \sqrt[3]{27} \\ x &= \sqrt[3]{27}\end{aligned}$$

7)  $x^3 = 1$

$$\begin{aligned}\sqrt[3]{x^3} &= \sqrt[3]{1} \\ x &= \sqrt[3]{1}\end{aligned}$$

8)  $x^3 = 729$

$$\begin{aligned}\sqrt[3]{x^3} &= \sqrt[3]{729} \\ x &= \sqrt[3]{729}\end{aligned}$$

9)  $x^3 = 8$

$$\begin{aligned}\sqrt[3]{x^3} &= \sqrt[3]{8} \\ x &= \sqrt[3]{8}\end{aligned}$$

10)  $x^2 = 144$

$$\begin{aligned}\sqrt{x^2} &= \sqrt{144} \\ x &= \sqrt{144}\end{aligned}$$

11)  $x^3 = 1,000$

$$\begin{aligned}\sqrt[3]{x^3} &= \sqrt[3]{1,000} \\ x &= \sqrt[3]{1,000}\end{aligned}$$

12)  $x^2 = 36$

$$\begin{aligned}\sqrt{x^2} &= \sqrt{36} \\ x &= \sqrt{36}\end{aligned}$$

13)  $x^2 = 81$

$$\begin{aligned}\sqrt{x^2} &= \sqrt{81} \\ x &= \sqrt{81}\end{aligned}$$

14)  $x^2 = 16$

$$\begin{aligned}\sqrt{x^2} &= \sqrt{16} \\ x &= \sqrt{16}\end{aligned}$$

15)  $x^3 = 216$

$$\begin{aligned}\sqrt[3]{x^3} &= \sqrt[3]{216} \\ x &= \sqrt[3]{216}\end{aligned}$$

16)  $x^3 = 125$

$$\begin{aligned}\sqrt[3]{x^3} &= \sqrt[3]{125} \\ x &= \sqrt[3]{125}\end{aligned}$$

17)  $x^2 = 4$

$$\begin{aligned}\sqrt{x^2} &= \sqrt{4} \\ x &= \sqrt{4}\end{aligned}$$

18)  $x^2 = 64$

$$\begin{aligned}\sqrt{x^2} &= \sqrt{64} \\ x &= \sqrt{64}\end{aligned}$$

19)  $x^2 = 100$

$$\begin{aligned}\sqrt{x^2} &= \sqrt{100} \\ x &= \sqrt{100}\end{aligned}$$

20)  $x^2 = 25$

$$\begin{aligned}\sqrt{x^2} &= \sqrt{25} \\ x &= \sqrt{25}\end{aligned}$$

**Answers**Ex. 81. 72. 13. 44. 75. 36. 37. 18. 99. 210. 1211. 1012. 613. 914. 415. 616. 517. 218. 819. 1020. 5



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8)  $x^3 = 729$

9)  $x^3 = 8$

10)  $x^2 = 144$

11)  $x^3 = 1,000$

12)  $x^2 = 36$

Answers

Ex. 8

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

9. \_\_\_\_\_

10. \_\_\_\_\_

11. \_\_\_\_\_

12. \_\_\_\_\_

13. \_\_\_\_\_

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19. \_\_\_\_\_

20. \_\_\_\_\_