# 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)** $x^2 = 25$

## Answers

Ex. 8

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____
13. _____
14. _____
15. _____
16. _____
17. _____
18. _____
19. _____
20. _____



| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1-10 | 95 | 90 | 85 | 80 | 75 | 70 | 65 | 60 | 55 | 50 |
| 11-20 | 45 | 40 | 35 | 30 | 25 | 20 | 15 | 10 | 5 | 0 |

Solving with Squared and Cubed  Name: **Answer Key**

**Find the positive value of x.**

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

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

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

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

**4)** $x^2 = 49$
$\sqrt{x^2} = \sqrt{49}$
$x = \sqrt{49}$

**5)** $x^2 = 9$
$\sqrt{x^2} = \sqrt{9}$
$x = \sqrt{9}$

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

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

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

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

**10)** $x^2 = 144$
$\sqrt{x^2} = \sqrt{144}$
$x = \sqrt{144}$

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

**12)** $x^2 = 36$
$\sqrt{x^2} = \sqrt{36}$
$x = \sqrt{36}$

**13)** $x^2 = 81$
$\sqrt{x^2} = \sqrt{81}$
$x = \sqrt{81}$

**14)** $x^2 = 16$
$\sqrt{x^2} = \sqrt{16}$
$x = \sqrt{16}$

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

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

**17)** $x^2 = 4$
$\sqrt{x^2} = \sqrt{4}$
$x = \sqrt{4}$

**18)** $x^2 = 64$
$\sqrt{x^2} = \sqrt{64}$
$x = \sqrt{64}$

**19)** $x^2 = 100$
$\sqrt{x^2} = \sqrt{100}$
$x = \sqrt{100}$

**20)** $x^2 = 25$
$\sqrt{x^2} = \sqrt{25}$
$x = \sqrt{25}$

**Answers**

Ex. 8
1. 7
2. 1
3. 4
4. 7
5. 3
6. 3
7. 1
8. 9
9. 2
10. 12
11. 10
12. 6
13. 9
14. 4
15. 6
16. 5
17. 2
18. 8
19. 10
20. 5


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| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1-10 | 95 | 90 | 85 | 80 | 75 | 70 | 65 | 60 | 55 | 50 |
| 11-20 | 45 | 40 | 35 | 30 | 25 | 20 | 15 | 10 | 5 | 0 |

Solving with Squared and Cubed Name:

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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. _____
14. _____
15. _____
16. _____
17. _____
18. _____
19. _____
20. _____



| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1-10 | 92 | 83 | 75 | 67 | 58 | 50 | 42 | 33 | 25 | 17 |
| 11-12 | 8 | 0 | | | | | | | | |