# Solving with Squared and Cubed

Name:

**Find the positive value of x.**

**Ex)** $x^2 = 4$

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

$x = \sqrt{4}$

**1)** $x^2 = 16$

**2)** $x^2 = 49$

**3)** $x^2 = 81$

**4)** $x^3 = 64$

**5)** $x^2 = 36$

**6)** $x^2 = 64$

**7)** $x^3 = 729$

**8)** $x^3 = 27$

**9)** $x^2 = 100$

**10)** $x^2 = 9$

**11)** $x^3 = 1{,}000$

**12)** $x^2 = 25$

**13)** $x^3 = 216$

**14)** $x^3 = 343$

**15)** $x^2 = 144$

**16)** $x^2 = 1$

**17)** $x^3 = 8$

**18)** $x^2 = 121$

**19)** $x^3 = 125$

**20)** $x^3 = 1$

## Answers

Ex. _____**2**_____

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

11. _____

12. _____

13. _____

14. _____

15. _____

16. _____

17. _____

18. _____

19. _____

20. _____

**Math**    www.CommonCoreSheets.com

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

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**4)** $x^3 = 64$

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

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

**5)** $x^2 = 36$

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

$x = \sqrt{36}$

**6)** $x^2 = 64$

$\sqrt{x^2} = \sqrt{64}$

$x = \sqrt{64}$

**7)** $x^3 = 729$

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

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

**8)** $x^3 = 27$

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

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

**9)** $x^2 = 100$

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

$x = \sqrt{100}$

**10)** $x^2 = 9$

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

$x = \sqrt{9}$

**11)** $x^3 = 1,000$

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

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

**12)** $x^2 = 25$

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**13)** $x^3 = 216$

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**15)** $x^2 = 144$

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

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

**18)** $x^2 = 121$

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

$x = \sqrt{121}$

**19)** $x^3 = 125$

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

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

**20)** $x^3 = 1$

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

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

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

| 1-10 | 95 | 90 | 85 | 80 | 75 | 70 | 65 | 60 | 55 | 50 |
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**12)** $x^2 = 25$

**Math**

**Modified**
www.CommonCoreSheets.com

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