Solving with Squared and Cubed Name:

Find the positive value of x.

1) $x^3 = 8$

2) $x^3 = 27$

3) $x^3 = 64$

4) $x^3 = 125$

5) $x^3 = 216$

6) $x^3 = 343$

7) $x^3 = 512$

8) $x^3 = 729$

9) $x^3 = 1{,}000$

10) $x^2 = 1$

11) $x^2 = 4$

12) $x^2 = 9$

13) $x^2 = 16$

14) $x^2 = 25$

15) $x^2 = 36$

16) $x^2 = 49$

17) $x^2 = 64$

18) $x^2 = 81$

19) $x^2 = 100$

20) $x^2 = 121$

Answers

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.

1) $x^3 = 8$

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

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

2) $x^3 = 27$

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

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

3) $x^3 = 64$

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

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

4) $x^3 = 125$

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

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

5) $x^3 = 216$

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

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

6) $x^3 = 343$

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

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

7) $x^3 = 512$

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

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

8) $x^3 = 729$

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

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

9) $x^3 = 1{,}000$

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

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

10) $x^2 = 1$

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

$x = \sqrt{1}$

11) $x^2 = 4$

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

$x = \sqrt{4}$

12) $x^2 = 9$

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

$x = \sqrt{9}$

13) $x^2 = 16$

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

$x = \sqrt{16}$

14) $x^2 = 25$

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

$x = \sqrt{25}$

15) $x^2 = 36$

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

$x = \sqrt{36}$

16) $x^2 = 49$

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

$x = \sqrt{49}$

17) $x^2 = 64$

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

$x = \sqrt{64}$

18) $x^2 = 81$

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

$x = \sqrt{81}$

19) $x^2 = 100$

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

$x = \sqrt{100}$

20) $x^2 = 121$

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

$x = \sqrt{121}$

Answers

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

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