Solving with Squared and Cubed

Name:

Find the positive value of x.

Ex) $x^3 = 27$

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

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

1) $x^3 = 8$

2) $x^2 = 64$

3) $x^3 = 729$

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

5) $x^3 = 125$

6) $x^2 = 144$

7) $x^3 = 343$

8) $x^2 = 49$

9) $x^2 = 25$

10) $x^2 = 1$

11) $x^2 = 100$

12) $x^2 = 81$

13) $x^3 = 64$

14) $x^3 = 512$

15) $x^2 = 16$

16) $x^2 = 9$

17) $x^3 = 216$

18) $x^2 = 4$

19) $x^2 = 36$

20) $x^2 = 121$

Answers

Ex. 3

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Answers

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

Solving with Squared and Cubed Name:

Find the positive value of x.

Ex) $x^3 = 27$

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

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

1) $x^3 = 8$

2) $x^2 = 64$

3) $x^3 = 729$

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

5) $x^3 = 125$

6) $x^2 = 144$

7) $x^3 = 343$

8) $x^2 = 49$

9) $x^2 = 25$

10) $x^2 = 1$

11) $x^2 = 100$

12) $x^2 = 81$

Answers

Ex. 3

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								