Solving with Squared and Cubed Name:

Find the positive value of x.

Ex) $x^3 = 729$

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

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

1) $x^2 = 1$

2) $x^3 = 343$

3) $x^3 = 1$

4) $x^3 = 512$

5) $x^2 = 121$

6) $x^2 = 4$

7) $x^2 = 36$

8) $x^3 = 27$

9) $x^2 = 9$

10) $x^2 = 64$

11) $x^2 = 81$

12) $x^2 = 49$

13) $x^3 = 8$

14) $x^2 = 100$

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

16) $x^2 = 144$

17) $x^2 = 25$

18) $x^3 = 216$

19) $x^2 = 16$

20) $x^3 = 125$

Answers

Ex. 9

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Answers

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

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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Answers

Ex. 9

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								