

# Why Is a Duplicate Key Like a Small Cake ?

Solve each equation below. (Be sure to check each apparent solution in the original equation.) Cross out the box that contains your solution. When you finish, print the letters from the remaining boxes in the spaces at the bottom of the page.

①  $\sqrt{x} = 8$

②  $\sqrt{4y} = 10$

③  $\sqrt{6x} = 12$

④  $\sqrt{\frac{x}{5}} = 3$

⑤  $\sqrt{\frac{a}{3}} = 10$

⑥  $\sqrt{x} + 7 = 11$

⑦  $\sqrt{3x} - 1 = 5$

⑧  $\sqrt{5y} + 3 = 7$

⑨  $\sqrt{2b} + 4 = 8$

⑩  $\sqrt{6x + 1} + 9 = 16$

⑪  $\sqrt{3n + 8} - 5 = 0$

⑫  $\sqrt{4t - 7} + 4 = 1$

⑬  $\sqrt{\frac{x}{6}} + 2 = 7$

⑭  $\sqrt{\frac{2m}{3}} + 6 = 9$

⑮  $\sqrt{x} = 7\sqrt{2}$

⑯  $\sqrt{4y - 3} = \sqrt{41}$

⑰  $\sqrt{5x - 7} = \sqrt{3x + 3}$

⑱  $4\sqrt{a} = \sqrt{4a + 27}$

Answers for exercises 1–6:

TH	25	RE	45	BE	16	RY	64	IT	no solution	CA	300	TH	24
								WI	35				

Answers for exercises 7–12:

HA	8	SH	$\frac{16}{5}$	IS	28	TH	no solution	US	12	LD	30	AT	$\frac{5}{3}$

Answers for exercises 13–18:

OP	$\frac{27}{2}$	EA	5	TH	98	AS	150
NK	32	DE	$\frac{9}{4}$	SK	11	EY	no solution

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