

PRECII ~~XXX~~ Extra (optional)
WS4.6

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(13) $\sqrt{\frac{x}{6} + 2} = 7$

(14) $\sqrt{\frac{2m}{3} + 6} = 9$

$$\textcircled{15} \quad \sqrt{x} = 7\sqrt{2}$$

⑩ $\sqrt{4y-3} = \sqrt{41}$

17 $\sqrt{5x-7} = \sqrt{3x+3}$

18 $4\sqrt{a} = \sqrt{4a} + 27$

Answers for exercises 13–18:

[illegible]

What Is the Advantage of Having Nuclear Physics?

Solve each equation and problem below. (Be sure to check each apparent solution in the original equation.) Find your answer and notice the two letters next to it. Write these letters in the two boxes above the exercise number at the bottom of the page.

① $\sqrt{x+4} = 14$

$$\textcircled{2} \sqrt[3]{\frac{3a}{2}} - 1 = 5$$

$$\frac{1}{2} \sqrt{8} \quad (3)$$

④ $\sqrt[3]{3n} = \frac{2}{5}$

5 The square root of one fourth of a number is 6. Find the number.

⑥ $\sqrt{5+2+8}=11$

⑦ $\sqrt{7d-9} = \sqrt{2d+21}$

⑧ $\sqrt{x^2 + 3x} = 2$

9 $\sqrt{3w + 10} - w = 0$

10 When 11 is subtracted from twice a number, the square root of the result is 4. Find the number.

11 $\sqrt{x-3} = x-3$

12 $x + 2 = \sqrt{18 - x}$

$$\textcircled{13} \quad y = 5 + \sqrt{3y - 5}$$

$$\textcircled{14} \sqrt{7m+25} - m = 1$$

15 Three times the square root of a number is the same as 4 less than the number. Find the number.

$\frac{8}{25}$	$\frac{24}{25}$
$\frac{144}{25}$	$\frac{180}{25}$
$\frac{500}{25}$	$\frac{28}{25}$
$\frac{4}{75}$	$\frac{1}{32}$

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$\frac{500}{25}$	$\frac{28}{25}$
$\frac{4}{75}$	$\frac{1}{32}$

Answer:

ST	9	TH	$\{1, -4\}$
IT	6	IS	$27\frac{1}{2}$
CL	5	AF	$\{2, -3\}$
CH	$13\frac{1}{5}$	ER	$7\frac{1}{5}$

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IT	6	IS	$27\frac{2}{2}$
CL	5	AF	$\{2, -3\}$
CH	$13\frac{13}{5}$	ER	$7\frac{7}{5}$

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CH	$13\frac{1}{5}$	ER	$7\frac{1}{5}$

Approved

OU	8	FI	-7
ND	25	TH	{3, 4}
TT	10	LD	16
KI	2	AT	{5, -3}

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ND	25	TH	{3, 4}
TT	10	LD	16
KI	2	AT	{5, -3}

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ND	25	TH	{3, 4}
TT	10	LD	16
KI	2	AT	{5, -3}

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ND	25	TH	{3, 4}
TT	10	LD	16
KI	2	AT	{5, -3}

10

7	10	2	13	6	11	1	8	4	15	9	14	3	12	5
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