

Name: _____

Score: _____

Solve the Absolute Value Equation
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T1MS2

Solve each equation. In case of no solution, write \emptyset (null set).

1) $ x = 5$	2) $\left \frac{x}{2}\right = 18$	3) $- x = \frac{5}{2}$		
Solution =	Solution =	Solution =		
4) $-\left -\frac{x}{2}\right = -2$	5) $ -x = -1$	6) $\frac{ x }{5} = 3$		
Solution =	Solution =	Solution =		
7) $\frac{ x }{7} = \frac{1}{2}$	<div style="border: 2px solid #0070C0; padding: 10px; background-color: #FFF; margin: 0 auto; width: 80%;"> <h1 style="margin: 0; color: #0070C0; font-size: 2em;">PREVIEW</h1> <p style="margin: 5px 0; color: #0070C0; font-size: 1.2em;">Gain complete access to the largest collection of worksheets in all subjects!</p> <div style="display: flex; justify-content: space-around; margin: 10px 0;"> <div style="background-color: #0070C0; color: white; padding: 10px; width: 40%; transform: rotate(-2deg);"> <p style="margin: 0;">Members, please log in to download this worksheet.</p> </div> <div style="background-color: #0070C0; color: white; padding: 10px; width: 40%; transform: rotate(2deg);"> <p style="margin: 0;">Not a member? Please sign up to gain complete access.</p> </div> </div> <p style="margin: 10px 0; color: #0070C0; font-size: 0.9em;">www.mathworksheets4kids.com</p> </div>			
Solution =				
10) $\left \frac{x}{8}\right = 2$				
Solution =				
13) $ -x = -3$				
Solution =				
16) $\left \frac{x}{4}\right = 1$				
Solution =				
19) $\frac{ 2x }{7} = \frac{1}{4}$			20) $\left \frac{-x}{3}\right = 4$	21) $ -4x = -\frac{1}{2}$
Solution =			Solution =	Solution =
22) $-\left -\frac{x}{2}\right = -7$	23) $- -x = -8$	24) $\frac{-1}{ -x } = 7$		
Solution =	Solution =	Solution =		

Name: _____

Answer key

Score: _____

Solve the Absolute Value Equation

T1MS2

1) $ x = 5$ Solution = $\{-5, 5\}$	2) $\left \frac{x}{2}\right = 18$ Solution = $\{-36, 36\}$	3) $- x = \frac{5}{2}$ Solution = \emptyset
4) $-\left -\frac{x}{2}\right = -2$ Solution = $\{-4, 4\}$	5) $ -x = -1$ Solution = \emptyset	6) $\frac{ x }{5} = 3$ Solution = $\{-15, 15\}$
7) $\frac{ x }{7} = \frac{1}{2}$ Solution = $\left\{-\frac{7}{2}, \frac{7}{2}\right\}$		$ x = -\frac{3}{4}$ Solution = $\left\{-\frac{3}{4}, \frac{3}{4}\right\}$
10) $\left \frac{x}{8}\right = 2$ Solution = $\{-16, 16\}$		$ x = 8$ Solution = $\left\{-\frac{1}{4}, \frac{1}{4}\right\}$
13) $ -x = -3$ Solution = \emptyset		$ x = 2$ Solution = $\{-2, 2\}$
16) $\left \frac{x}{4}\right = 1$ Solution = $\{-4, 4\}$		$ x = -5$ Solution = $\left\{-\frac{2}{5}, \frac{2}{5}\right\}$
19) $\frac{ 2x }{7} = \frac{1}{4}$ Solution = $\left\{-\frac{7}{8}, \frac{7}{8}\right\}$	20) $\left \frac{-x}{3}\right = 4$ Solution = $\{-12, 12\}$	21) $ -4x = -\frac{1}{2}$ Solution = \emptyset
22) $-\left -\frac{x}{2}\right = -7$ Solution = $\{-14, 14\}$	23) $- -x = -8$ Solution = $\{-8, 8\}$	24) $\frac{-1}{ -x } = 7$ Solution = \emptyset

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