

Name: _____

Score: _____

Solve the Absolute Value Equation

T1ES2

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

1) $ 2x = 4$	2) $ x = 16$	3) $ x = -3$		
Solution =	Solution =	Solution =		
4) $ -x = -9$	5) $-\frac{ x }{3} = -1$	6) $ x = 7$		
Solution =	Solution =	Solution =		
7) $ x = 11$	<div style="border: 2px solid #007bff; padding: 10px; background-color: #e0f0ff;"> <h1 style="margin: 0; color: #007bff;">PREVIEW</h1> <p style="margin: 5px 0 0 0; color: #007bff;">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: #007bff; color: white; padding: 5px; transform: rotate(-2deg); text-align: left;"> <p>Members, please log in to download this worksheet.</p> </div> <div style="background-color: #007bff; color: white; padding: 5px; transform: rotate(2deg); text-align: left;"> <p>Not a member? Please sign up to gain complete access.</p> </div> </div> <p style="margin: 10px 0 0 0; color: #007bff;">www.mathworksheets4kids.com</p> </div>			
Solution =				
10) $ -x = 2$				
Solution =				
13) $ x = -7$				
Solution =				
16) $- x = -3$				
Solution =				
19) $ x = 15$			20) $- x = 4$	21) $ 3x = -5$
Solution =			Solution =	Solution =
22) $- x = -19$	23) $ -x = 6$	24) $ x = 1$		
Solution =	Solution =	Solution =		

Name: _____

Answer key

Score: _____

Solve the Absolute Value Equation

T1ES2

1) $ 2x = 4$ Solution = $\{-2, 2\}$	2) $ x = 16$ Solution = $\{-16, 16\}$	3) $ x = -3$ Solution = \emptyset
4) $ -x = -9$ Solution = \emptyset	5) $-\frac{ x }{3} = -1$	6) $ x = 7$ Solution = $\{-7, 7\}$
7) $ x = 11$ Solution = $\{-11, 11\}$		$ x = 19$ Solution = \emptyset
10) $ -x = 2$ Solution = $\{-2, 2\}$		$ x = \frac{1}{2}$ Solution = $\{-\frac{1}{2}, \frac{1}{2}\}$
13) $ x = -7$ Solution = \emptyset		$ x = 12$ Solution = $\{-12, 12\}$
16) $- x = -3$ Solution = $\{-3, 3\}$		$ x = 6$ Solution = $\{-6, 6\}$
19) $ x = 15$ Solution = $\{-15, 15\}$		$ x = -5$ Solution = \emptyset
22) $- x = -19$ Solution = $\{-19, 19\}$	23) $ -x = 6$ Solution = $\{-6, 6\}$	24) $ x = 1$ Solution = $\{-1, 1\}$

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