Name: _____ **Score:** _____

Solve each equation.

1) $5\lvert 3x - 1 \rvert = 7$ Solution =	2) $4\lvert -x + 2 \rvert = 5$ Solution =	3) $\left\lvert \dfrac{x}{3} - 2 \right\rvert = \dfrac{1}{3}$ Solution =
4) $\lvert 4 - x \rvert = 8$ Solution =	5) $\dfrac{5}{6}\lvert -x + 2 \rvert = \dfrac{1}{2}$	6) $4\left\lvert x + \dfrac{1}{4} \right\rvert = 5$ =
7) $\dfrac{8}{3}\lvert 3 - x \rvert = 5$ Solution =		$\rvert = 5$ =
10) $3\lvert 6x - 2 \rvert =$ Solution =		$+ 5\rvert = 2$ =
13) $\dfrac{3}{4\lvert x + 2 \rvert} = 6$ Solution =	Solution =	$4\rvert = \dfrac{2}{3}$ Solution =
16) $3\left\lvert x - \dfrac{1}{5} \right\rvert = \dfrac{6}{5}$ Solution =	17) $\lvert -2x + 1 \rvert = 3$ Solution =	18) $4\left\lvert \dfrac{x}{3} + 2 \right\rvert = 2$ Solution =

PREVIEW

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Solve the Absolute Value Equation   T3MS2

1) $5|3x-1|=7$

   Solution = $\left\{-\dfrac{2}{15},\ \dfrac{4}{5}\right\}$

2) $4|-x+2|=5$

   Solution = $\left\{\dfrac{3}{4},\ \dfrac{13}{4}\right\}$

3) $\left|\dfrac{x}{3}-2\right|=\dfrac{1}{3}$

   Solution = $\{5,\ 7\}$

4) $|4-x|=8$

   Solution = $\{-4,\ $

5) $\dfrac{5}{6}|-x+2|=\dfrac{1}{3}$

6) $4\left|x+\dfrac{1}{4}\right|=5$

   = $\left\{-\dfrac{3}{2},\ 1\right\}$

7) $\dfrac{8}{3}|3-x|=5$

   Solution = $\left\{\dfrac{9}{8},\ \dfrac{3}{8}\right.$

$|=5$

   = $\left\{\dfrac{5}{4},\ \dfrac{35}{4}\right\}$

10) $3|6x-2|=$

    Solution = $\left\{\dfrac{1}{9},\ \dfrac{5}{9}\right.$

$+5|=2$

    = $\{3,\ 7\}$

13) $\dfrac{3}{4|x+2|}=6$

    Solution = $\left\{-\dfrac{15}{8},\ -\dfrac{17}{8}\right\}$

$4|=\dfrac{2}{3}$

    Solution = $\{-7,\ 3\}$

    Solution = $\{-14,\ -10\}$

16) $3\left|x-\dfrac{1}{5}\right|=\dfrac{6}{5}$

    Solution = $\left\{-\dfrac{1}{5},\ \dfrac{3}{5}\right\}$

17) $|-2x+1|=3$

    Solution = $\{-1,\ 2\}$

18) $4\left|\dfrac{x}{3}+2\right|=2$

    Solution = $\left\{-\dfrac{15}{2},\ -\dfrac{9}{2}\right\}$