Name: _____   **Score:** _____

Solve the Absolute Value Equation   T3ES1

Solve each equation.

1) $\lvert 3x - 1 \rvert = 7$ Solution =	2) $\frac{1}{2}\lvert x + 4 \rvert = 5$ Solution =	3) $4\lvert 9x + 2 \rvert = 2$ Solution =
4) $9\lvert x + 5 \rvert = 3$ Solution =	5) $2\lvert 6x + 1 \rvert = 6$ Solution =	6) $5\lvert 2x - 1 \rvert = 4$ Solution =
7) $\frac{1}{3}\lvert 3x - 6 \rvert = 10$ Solution =	8) $2\left\lvert \frac{x}{3} + 4 \right\rvert = 1$ Solution =	9) $\lvert 6 + 4x \rvert = 2$ Solution =
10) $4\lvert x - 2 \rvert = 3$ Solution =	11) $5\lvert x + 2 \rvert = 7$ Solution =	12) $2\lvert 7x + 1 \rvert = 4$ Solution =
13) $\frac{1}{2}\lvert x + 5 \rvert = 1$ Solution =	14) $\lvert 9 + 4x \rvert = 15$ Solution =	15) $2\lvert x + 8 \rvert = 5$ Solution =
16) $\lvert 3x + 1 \rvert = 11$ Solution =	17) $2\lvert -x + 7 \rvert = 3$ Solution =	18) $3\lvert x + 4 \rvert = 2$ Solution =

Solve the Absolute Value Equation

T3ES1

1) $\lvert 3x - 1 \rvert = 7$	2) $\frac{1}{2}\lvert x + 4 \rvert = 5$	3) $4\lvert 9x + 2 \rvert = 2$
Solution = $\left\{ -2, \ \frac{8}{3} \right\}$	Solution = $\left\{ -14, \ 6 \right\}$	Solution = $\left\{ -\frac{1}{6}, -\frac{5}{18} \right\}$
4) $9\lvert x + 5 \rvert = 3$	5) $2\lvert 6x + 1 \rvert = 6$	6) $5\lvert 2x - 1 \rvert = 4$
Solution = $\left\{ -\frac{14}{3}, -\frac{16}{3} \right\}$	Solution = $\left\{ -\frac{2}{3}, \ \frac{1}{3} \right\}$	Solution = $\left\{ \frac{1}{10}, \ \frac{9}{10} \right\}$
7) $\frac{1}{3}\lvert 3x - 6 \rvert = 10$	8) $2\left\lvert \frac{x}{3} + 4 \right\rvert = 1$	9) $\lvert 6 + 4x \rvert = 2$
Solution = $\left\{ -8, 12 \right\}$	Solution = $\left\{ -\frac{21}{2}, -\frac{27}{2} \right\}$	Solution = $\left\{ -1, -2 \right\}$
10) $4\lvert x - 2 \rvert = 3$	11) $5\lvert x + 2 \rvert = 7$	12) $2\lvert 7x + 1 \rvert = 4$
Solution = $\left\{ \frac{5}{4}, \ \frac{11}{4} \right\}$	Solution = $\left\{ -\frac{3}{5}, -\frac{17}{5} \right\}$	Solution = $\left\{ -\frac{3}{7}, \ \frac{1}{7} \right\}$
13) $\frac{1}{2}\lvert x + 5 \rvert = 1$	14) $\lvert 9 + 4x \rvert = 15$	15) $2\lvert x + 8 \rvert = 5$
Solution = $\left\{ -7, \ -3 \right\}$	Solution = $\left\{ -6, \ \frac{3}{2} \right\}$	Solution = $\left\{ -\frac{11}{2}, -\frac{21}{2} \right\}$
16) $\lvert 3x + 1 \rvert = 11$	17) $2\lvert -x + 7 \rvert = 3$	18) $3\lvert x + 4 \rvert = 2$
Solution = $\left\{ -4, \ \frac{10}{3} \right\}$	Solution = $\left\{ \frac{11}{2}, \ \frac{17}{2} \right\}$	Solution = $\left\{ -\frac{10}{3}, -\frac{14}{3} \right\}$