Name

## Class Period

SOLVING ABSOLUTE VALUE EQUATIONS COLORING ACTIVITY

Directions：
Solve the absolute value equations．
Circle your answer choice and color the corresponding areas in the picture．


| （1）$\|x-12\|=24$ | $\begin{aligned} & \{-12,36\} \\ & \text { GREEN } \end{aligned}$ | No Solution MAROON | $\begin{aligned} & \{-36,12\} \\ & \text { BROWN } \end{aligned}$ | $\{12,36\}$ AQUA |
| :---: | :---: | :---: | :---: | :---: |
| （2）$\|-3 x\|=6$ | No Solution ORANGE | $\{-2,2\}$ <br>  | $\begin{aligned} & \{-3,3\} \\ & \text { NAVY } \end{aligned}$ | $\begin{gathered} \{-2\} \\ \text { Siliver } \\ \hline \end{gathered}$ |
| （3）$\|-x-6\|=8$ | $\begin{aligned} & \{-14,-2\} \\ & \text { PURPLE } \end{aligned}$ | $\begin{aligned} & \{2,14\} \\ & \text { BROWN } \end{aligned}$ | No Solution WMrTE | $\begin{aligned} & \{-14,2\} \\ & \text { PRNK } \end{aligned}$ |
| （4）$\|8-4 x\|=28$ | $\{-5,9\}$ YELOW | No Solution DK Gerem | $\begin{gathered} \{-9,-5\} \\ \substack{\text { RED }} \\ \hline \end{gathered}$ | $\begin{gathered} \{5,9\} \\ \text { GREEN } \\ \hline \end{gathered}$ |
| 5 （ $5 x+4 \mid-5=4$ |  | $\{5,13\}$ ORANGE | No Solution MAROON | $\underset{\substack{-13,5\} \\ \mathbb{R} E \mathbb{D}}}{ }$ |
| （6） $4\|x+11\|=44$ | $\begin{aligned} & \{-22,0\} \\ & \text { WHTHE } \end{aligned}$ | $\begin{aligned} & \{0,22\} \\ & \text { NAVY } \end{aligned}$ | $\begin{aligned} & \text { YELO } \\ & \text { YOW } \end{aligned}$ | No Solution甄OWN |
| （7）$\|10+10 x\|+5=125$ | No Solution <br>  | $\begin{gathered} \{-13,-11\} \\ \text { AQUA }^{2} \\ \hline \end{gathered}$ | $\begin{aligned} & \{-13,11\} \\ & \text { PURP盛 } \end{aligned}$ | $\begin{aligned} & \hline\{11,13\} \\ & \text { PINNK } \end{aligned}$ |
| （8）$\frac{\|4 x-2\|}{3}=-3$ | $\begin{gathered} \{11 / 4\} \\ \text { RED } \end{gathered}$ | No Solution DK GRER | $\begin{aligned} & \{-7 / 4\} \\ & \text { LT RLUE } \end{aligned}$ | $\begin{gathered} \{-7 / 4,11 / 4\} \\ \text { BLACK } \end{gathered}$ |
| （9）$-4\|-10+x\|-7=-103$ | No Solution ORANGE | $\begin{aligned} & \{-34,-14\} \\ & \text { YEHOW } \end{aligned}$ | $\begin{aligned} & \{-14,34\} \\ & \text { NAVY } \end{aligned}$ | $\begin{aligned} & \{14,34\} \\ & \text { STM } \end{aligned}$ |
| （10） $5\|x+1\|+7=-38$ | $\{-10,8\}$ AQUA | $\begin{aligned} & \{-10-8\} \\ & \text { GREEN } \end{aligned}$ | $\begin{aligned} & \text { No Solution } \\ & \text { SIIVERER } \end{aligned}$ | $\{8,10\}$ PINK |
| （II） $4\|5+2 x\|+12=136$ | $\begin{gathered} \{-18,-13\} \\ \text { BLACK } \end{gathered}$ | $\left\{\begin{array}{l} \{13,18\} \\ \mathbb{R E D}, \end{array}\right.$ | No Solution IT BROWN | $\begin{aligned} & \{-18,13\} \\ & \text { ORANGE } \end{aligned}$ |
| （12） $14\|x+14\|+13=69$ | No Solution DK PRNK | $\begin{aligned} & \{-18,-10\} \\ & \text { BROWN } \end{aligned}$ | $\begin{aligned} & \{-10,18\} \\ & \text { TAN } \end{aligned}$ | $\begin{gathered} \{-18,10\} \\ \text { GRAY } \end{gathered}$ |
| （13） $6+\|2 x-11\|=37$ | $\begin{gathered} \{-21,10\} \\ \text { DK GREEN } \end{gathered}$ | $\{-10,21\}$ | $\begin{gathered} \{-21,-10\} \\ \text { PRNK } \end{gathered}$ | No Solution 1T Till |
| （14） $6+8\|7 x+14\|=174$ | $\{1,5\}$ | No Solution PURP區 | $\begin{aligned} & \{-5,1\} \\ & \text { MAROON } \end{aligned}$ | $\begin{aligned} & \{-5,-1\} \\ & \text { YEHOW } \end{aligned}$ |

