

Name _____

Why is the thermometer so smart?

Directions: Solve each of the problems below. Locate the answer at the bottom, and shade in the corresponding box. Once all problems are completed, the shaded boxes will answer the riddle.

1. $3|x+2| - 7 < 2$

2. $|x-8| \geq 3$

3. $|2x+2| - 7 \leq -5$

4. $|2x-1| \leq 5$

5. $4 + |2x+9| \geq 11$

6. $|3x-9| - 2 \geq 7$

7. $5|x-8| \leq 20$

8. $|3x| > -12$

9. $3|6-3x| + 6 < 42$

10. $|x+3| - 2 < -10$

11. $5 + \frac{|x-3|}{2} \geq 7$

IT $-2 < x < 6$	I $x < -5$ or $x > 1$	HA $4 \leq x \leq 12$	S \mathbb{R}	A $-2 \leq x \leq 3$	LO $x \leq -1$ or $x \geq 7$	BE $5 \leq x \leq 11$	T $x \leq 0$ or $x \geq 6$	OF $x \leq -8$ or $x \geq -1$
D $x \leq 5$ or $x \geq 11$	R $-8 \leq x \leq -1$	EG $-2 \leq x \leq 0$	MI $0 \leq x \leq 6$	RE $-5 < x < 1$	B $x \leq 2$ or $x \geq 6$	SE $x \leq 4$ or $x \geq 12$	RI $-1 \leq x \leq 7$	ES \emptyset

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