

**GRADE 6 · EXPRESSIONS & EQUATIONS · EXIT TICKET****WRITING & GRAPHING INEQUALITIES**

Today's goal: I can write inequalities in the form $x > c$ or $x < c$ to represent a constraint or condition in a real-world problem, write inequalities in the form $x > c$ or $x < c$ to represent a constraint or condition in a mathematical problem, identify that inequalities in the form $x > c$ or $x < c$ have infinitely many solutions and represent solutions of inequalities in the form $x > c$ or $x < c$ on number line diagrams.



REMEMBER An inequality describes a **range**, not one answer. 'More than 12' → $x > 12$. On a number line: an **open circle** at 12 (12 itself is NOT included) with the arrow pointing right. Use a **closed circle** when the boundary IS included ($\geq$ or $\leq$).

**MILD****Tan the Turtle:** Slow and steady. Warm up!

- 1 A ride requires riders to be more than 12 years old. Write an inequality, and say whether a 12-year-old can ride.

Answer

**MEDIUM****Digit the Fox:** Stretch your brain.

- 2 From the set {2, 4, 5, 8}, list every solution of $x < 5$.

Answer

- 3 Write an inequality for **at least 18**, and describe its number-line graph.

Answer



SPICY

Blaze the Dragon: Bring the heat!

- 4 A lift holds at most 60 kg. Write an inequality for the weight x , describe the graph, and explain why this inequality has infinitely many solutions.

Answer



I can do this skill: ☐ Not yet ☐ Almost ☐ Got it!