

2.5 Puzzle Time

What Was The Name Of Jupiter's Big Pet Dog?

Write the letter of each answer in the box containing the exercise number.

Write the sentence as an inequality. Graph the inequality.

- A number x is less than *or* equal to 4 *and* greater than -1 .
- A number x is less than 0 *or* at least 3.
- A number x is less than 8 *and* greater than *or* equal to 5.

Solve the inequality. Graph the solution.

- $9 < x + 4 \leq 12$
- $-5x - 12 < 13$ *or* $-6x + 8 > 50$
- $-3 \leq 2x - 3 \leq 3$
- $-4x + 7 > -13$ *or* $3x + 2 \geq 26$
- $9x - 13 < -22$ *or* $-8x + 7 \leq -25$
- $71 > -8x + 15 > -25$
- $24 < 3x - 6 < 36$
- $2x - 15 < 7$ *or* $-3x < -51$
- A local department store advertised that its clearance items had prices that were at least \$3 *and* no more than \$8. Write and solve an inequality that represents the prices of clearance items, and graph the inequality.

Answers

E. $5 \leq x < 8$;

T. $x < 5$ *or* $x \geq 8$;

T. $10 < x < 14$;

E. $-1 < x \leq 4$;

S. $x < -7$ *or* $x > -5$;

R. $x < -1$ *or* $x \geq 4$;

G. $x < 11$ *or* $x > 17$;

O. $x < 0$ *or* $x \geq 3$;

A. $0 \leq x \leq 3$;

P. $-7 < x < 5$;

D. $5 < x \leq 8$;

R. $3 \leq x \leq 8$;

11	8	3	6	10		12	1	4		5	9	2	7
----	---	---	---	----	--	----	---	---	--	---	---	---	---