Inequalities and regions: one inequality

Exit ticket ANSWERS Name _____

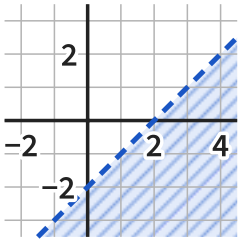
1. Is the line for $x \geq 3$ dashed or solid? Which side of the line is the region?

Solid; the right

2. Is the point (3, 1) in the region $y \geq x - 2$?
Show how you know.

Yes: $1 \geq 1$, on the solid line

3. Show $y < x - 2$ on the grid.



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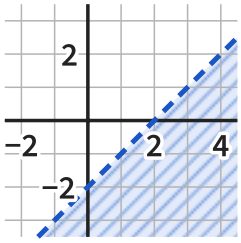

The Maths Habit

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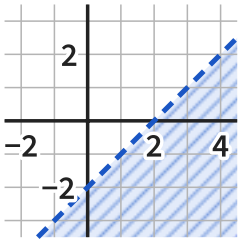

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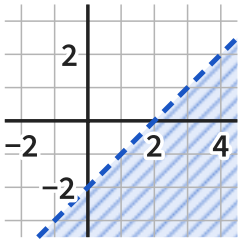

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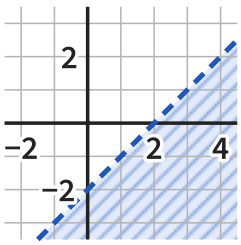

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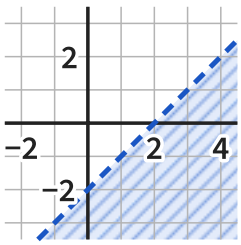


The Maths Habit

Exit ticket Inequalities and regions: one inequality

1 **Is the line for $x \geq 3$ dashed or solid? Which side of the line is the region?**

Solid; the right

TESTS Solid or dashed, and the side, for a line parallel to an axis

LOOK FOR *dashed* ≥ includes the line, so it is solid

the left, or above $x = 3$ is vertical, and $0 \geq 3$ is false: the other side from (0, 0)

FIX IT

Is the line for $y < -1$ dashed or solid? Which side of the line is the region?

Dashed; below

2 **Is the point (3, 1) in the region $y \geq x - 2$? Show how you know.**

Yes: 1 ≥ 1, on the solid line

TESTS Testing a point that is on the line

LOOK FOR *no: 1 is not more than 1* ≥ includes 1, so (3, 1) is on the solid line and in the region

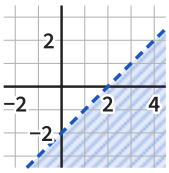
no: 1 is less than 3 the − 2 left out: 3 − 2 = 1

FIX IT

Is the point (2, 3) in the region $y < 2x - 1$? Show how you know.

No: 3 < 3 is false, on the dashed line

3 **Show $y < x - 2$ on the grid.**



dashed through (0, −2) and (2, 0); the side without (0, 0)

TESTS The whole method for one inequality

LOOK FOR *a solid line* < does not include the line, so it is dashed

the side with (0, 0) shaded (0, 0): 0 < −2 is false, so the other side

FIX IT

Is the line for $y \geq 2 - x$ solid or dashed? Is (0, 0) in the region?

Solid; no: 0 ≥ 2 is false