Solving inequalities: negatives and brackets

Exit ticket ANSWERS Name _____

1 Solve $11 - 4x \leq 3$

$x \geq 2$

2 Solve $2(x + 5) \leq 16$

$x \leq 3$

3 Sam solves $20 - 3x < 5$ and gets $x < 5$.
Find the right answer.

$x > 5$

The Maths Habit

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Exit ticket Solving inequalities: negatives and brackets

NEXT LESSON

1 Solve $11 - 4x \leq 3$

$x \geq 2$

TESTS Dividing by a negative: turning the sign round. Moving the x term to keep x positive, then reading the answer correctly, is also right. Never mark it wrong.

LOOK FOR

$x \leq 2$ did not turn the sign round (try $x = 0$: $11 \leq 3$ is false)

$x \geq -2$ lost the minus on −8

FIX IT

Solve $7 - 5x > 22$

$x < -3$

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2 Solve $2(x + 5) \leq 16$

$x \leq 3$

TESTS Expanding the bracket first: both terms are multiplied

LOOK FOR

$x \leq 5.5$ multiplied only the x by 2

$x \geq 3$ turned the sign round with no negative to divide by

FIX IT

Solve $3(x + 4) > 27$

$x > 5$

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3 **Sam solves $20 - 3x < 5$ and gets $x < 5$. Find the right answer.**

$x > 5$

TESTS Spotting a sign that was not turned round

LOOK FOR

$x < 5$ kept the sign, as Sam did (try $x = 0$: $20 < 5$ is false)

$x > -5$ lost the minus on −15

FIX IT

Solve $18 - 2x > 6$

$x < 6$