

Double inequalities and integer solutions

Exit ticket **ANSWERS** Name _____

1 Solve $-6 < 5x + 4 \leq 19$.

$-2 < x \leq 3$

2 List the integers that satisfy your answer to Q1.

$-1, 0, 1, 2, 3$

3 n is an integer. $2n - 3 > 1$ and $3n + 2 < 20$. Find all the values of n .

$3, 4, 5$

The Maths Habit

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1 Solve $-6 < 5x + 4 \leq 19$.

$$-2 < x \leq 3$$

TESTS

Doing the same to all three parts

LOOK FOR

$-10 < x \leq 15$ or $-1.2 < x \leq 3.8$ a step done to some parts only: divided only the middle, or took 4 from the middle only

$-6 < x \leq 3$ or $x \leq 3$ solved the right side only: copied the left end, or lost it

FIX IT

$$\text{Solve } -9 < 2x - 3 \leq 7.$$

$$-3 < x \leq 5$$

2 List the integers that satisfy your answer to Q1.

$$-1, 0, 1, 2, 3$$

TESTS

Integers with one end strict

LOOK FOR

$-2, -1, 0, 1, 2, 3$ or $-1, 0, 1, 2$ the ends: $<$ leaves -2 out, $\leq$ keeps 3

$-1, 1, 2, 3$ left out zero

FIX IT

List the integers that satisfy $-2 \leq x < 2.5$.

$$-2, -1, 0, 1, 2$$

3 n is an integer. $2n - 3 > 1$ and $3n + 2 < 20$. Find all the values of n .

$$3, 4, 5$$

TESTS

Two inequalities, one set of integers

LOOK FOR

$2, 3, 4, 5, 6$ kept both ends: $n > 2$ leaves 2 out

$3, 4, 5, 6$ 6 is not less than 6

FIX IT

n is an integer. $4n + 3 > 7$ and $2n - 5 \leq 3$. Find all the values of n .

$$2, 3, 4$$