

Integer Solutions to Inequalities *fluency*

ANSWERS

 List the positive integers that satisfy

1 $x < 5$ 1, 2, 3, 4

2 $x \leq 3$ 1, 2, 3

3 $x < 2.5$ 1, 2

4 $x \leq 1$ 1

5 $3x < 16$ 1, 2, 3, 4, 5

6 $4x \leq 26$ 1, 2, 3, 4, 5, 6

 List the integers that satisfy

7 $2 < x \leq 6$ 3, 4, 5, 6

8 $0 \leq x < 4$ 0, 1, 2, 3

9 $5 < x < 9$ 6, 7, 8

10 $1 \leq x \leq 3$ 1, 2, 3

11 $3.5 < x < 7$ 4, 5, 6

12 $0.5 \leq x \leq 4.5$ 1, 2, 3, 4

 List the integers that satisfy

13 $-3 < x < 2$ -2, -1, 0, 1

14 $-5 \leq x < -1$ -5, -4, -3, -2

15 $-2 \leq x \leq 2$ -2, -1, 0, 1, 2

16 $-4.5 < x < 0$ -4, -3, -2, -1

17 $-1 < x \leq 3$ 0, 1, 2, 3

18 $-6 < x \leq -3$ -5, -4, -3

 Solve, then list the integers that satisfy

19 $3 < 2x + 1 \leq 11$ 2, 3, 4, 5

20 $-4 \leq 2x < 6$ -2, -1, 0, 1, 2

21 $1 < 3x - 2 < 13$ 2, 3, 4

22 $-7 < 2x - 1 \leq 3$ -2, -1, 0, 1, 2

23 $0 < \frac{x}{2} \leq 2$ 1, 2, 3, 4

24 $5 \leq 3x + 2 < 20$ 1, 2, 3, 4, 5

 Find the largest integer that satisfies

25 $3x + 2 < 20$ 5

26 $5x - 4 \leq 31$ 7

27 $2x + 7 < 4$ -2

28 $4 - x > 1$ 2

29 $\frac{x}{3} + 1 < 5$ 11

30 $7x < 2x + 18$ 3