

Interleaved: equations and inequalities

1

Solve $3x + 7 = 22$

Which method?

Equation

Inequality, sign stays

Inequality, sign flips

an equation: subtract 7, then divide by 3

Answer $x = 5$

2

Solve $5 - 2x > 11$

Which method?

Equation

Inequality, sign stays

Inequality, sign flips

Answer

3

Solve $4x - 3 \leq 17$

Which method?

Equation

Inequality, sign stays

Inequality, sign flips

Answer

4

Solve $7 - 3x = 19$

Which method?

Equation

Inequality, sign stays

Inequality, sign flips

Answer

5

Solve $2(4 - x) < 14$

Which method?

Equation

Inequality, sign stays

Inequality, sign flips

Answer

6

Solve $\frac{x}{3} + 2 > -1$

Which method?

Equation

Inequality, sign stays

Inequality, sign flips

Answer

7

Solve $5(x - 2) = 3x + 4$

Which method?

Equation

Inequality, sign stays

Inequality, sign flips

Answer

8

Solve $3 - 4x \geq x + 18$

Which method?

Equation

Inequality, sign stays

Inequality, sign flips

Answer

Interleaved: equations and inequalities further practice

9

Find the largest whole number n that satisfies $6n + 5 < 41$

Answer

10

Solve $10 - 3x \leq 1$

Answer

11

Solve $\frac{2x + 1}{3} = x - 2$

Answer

12

List the integers that satisfy $-1 < 2 - x \leq 3$

Answer

13

Solve $4(x + 3) > 2x - 6$

Answer

14

Mia thinks of a number. She multiplies it by -3 and then adds 20. Her answer is 32. Find her number.

Answer

15

Solve $\frac{x}{2} - 7 > -4$

Answer

16

Leo solves $8 - 2x > 4$ and gets $x > 2$. Explain his mistake and give the correct answer.

Answer