Geometry Readiness Practice 3
… Solving Inequalities

Unit C: Solving Inequalities
Be able to:
- Graph inequalities on a number line
- Use the additive and multiplicative properties of equality to solve inequalities
- Recognize that you must reverse the inequality symbol when you multiply or divide both sides of an inequality by a negative number
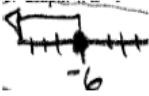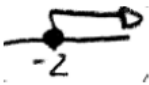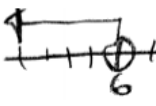
Solve

1) $3y + 5 < 26$

2) $2w + 1 < 7$

3) Graph: $x \leq -6$

4) Solve and graph the inequality: $-5 \leq w - 3$

5) Solve and graph solution: $-3c < -18$

6) Write an inequality that represents each verbal expression: c is greater than 21.

7) Write an inequality that represents each verbal expression: z is less than or equal to -5.

8) Graph on a number line: $x < 6$

9) Solve and graph: $-x \geq 5$

10) Solve and graph: $2x - 3(x - 5) > 10$

11) Solve and graph: $2x + 5 \leq 4x + 1$

12) Solve: $-2y - 6 - y > 15$

13) Solve: $6m - 5m + 2 \geq 11$

14) Solve: $2(c - 3) - 2c > 0$

15) Solve: $-3t + 1 \geq -3(t + 2)$

16) Solve: $4 \leq \dfrac{-2}{5}y$

17) Solve: $\dfrac{x}{4} > -1$

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Answers

ANSWERS for Unit C

1) $y < 7$

2) $w < 3$

3)

4) $-2 \leq w$

5) $c > 6$

6) $c > 21$

7) $z \leq -5$

8)

9) $x \leq -5$

10) $x < 5$

11) $2 \leq x$

12) $y < -7$

13) $y \leq -7$

14) $m \geq 9$

15) All real #s

16) All real #s

17) $-10 \geq y$

18) $x > -4$

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