

Algebra 1 Wk 5 Friday

W-up:

Skill 1:

Solve completely, showing all steps.

1. $2(x+3) = 12 - (4x-2)$

Skill 2:

Write a proportion and solve

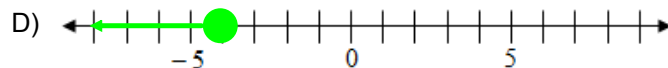
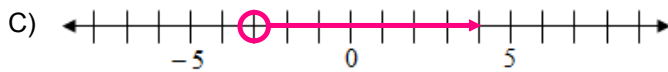
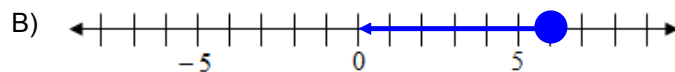
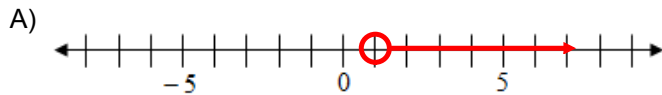
2. Last season the girl's volleyball team has made 924 kills in 64 games. How many kills should we expect to see in the next 7 games?

3. Is the given number a solution to $2x + 1 > -3$? Show your work

A) -3

B) -1

4. Write an inequality to represent each line graph: (like $x > 2$)



1. What is the inequality that represents the verbal expression? notes

- a. all real numbers p greater than or equal to 1.5
- b. The sum of t and 7 is less than -3
- c. The quotient of k and 11 is greater than or equal to -4

2. Which of the following numbers are a solution to $2x + 1 > -3$?

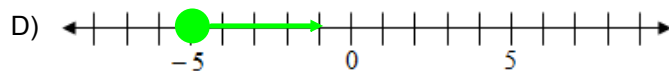
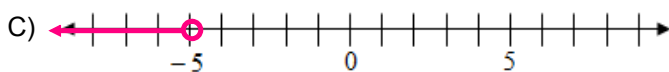
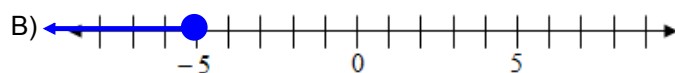
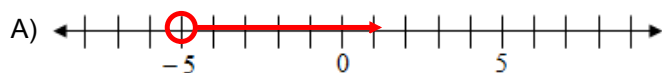
- a. -3
- b. -1
- c. 0
- d. -2

3. Define a variable and write an inequality to model each situation.

- a. A school classroom can hold at most 42 students.
- b. You know that you have at least \$225 in you bank account.
- c. You need bricks to complete a project at your home. You must spend under \$150 and the bricks cost \$2 each.

4. Match each inequality with its graph

- i) $x < -5$ ii) $x > -5$ iii) $x \leq -5$ iv) $x \geq -5$



5. Write an verbal expression in your own words that goes with the following inequality: $x \leq 15$

HW p 168: 10, 11, 13, 17-20, 29, 30, 35, 37, 39, 40

Write an inequality that represents each verbal expression.

See Problem 1.

10. 3 less than g is less than or equal to 17.

11. The quotient of k and 9 is greater than $\frac{1}{3}$.

Determine whether each number is a solution of the given inequality.

See Problem 2.

13. $8m - 6 \leq 10$

a. 2

b. 3

c. -1

Match each inequality with its graph.

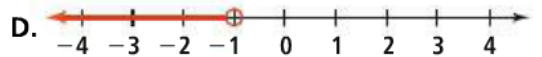
See Problem 3.

17. $x < -1$

18. $x \geq -1$

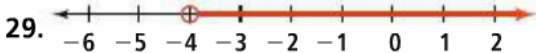
19. $-1 < x$

20. $-1 \geq x$



Write an inequality for each graph.

See Problem 4.



Write an inequality for each graph.




Define a variable and write an inequality to model each situation.

See Problem 5.

35. The restaurant can seat at most 172 people.

37. A light bulb can be no more than 75 watts to be safely used in this light fixture.

39. A law clerk has earned more than \$20,000 since being hired.

 40. **Error Analysis** A student claims that the inequality $3x + 1 > 0$ is always true because multiplying a number by 3 and then adding 1 to the result always produces a number greater than 0. Explain the student's error.

