

Independent Review

Solve for x.

1) $-2x + 6 = -8$

$x = 7$

2) $\frac{x-5}{2} = -4$

$x = -3$

Solve for x.

3) $5(x + 5) = 85$

$x = 12$

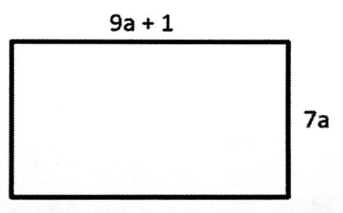
4) $-2x + 4 + 8x = -14$

$x = -3$

5) The perimeter of the rectangle is 66 units. Find the value of a.

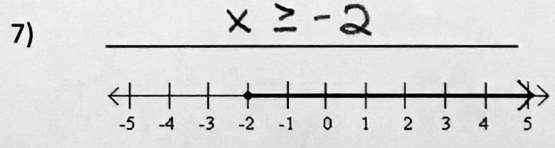
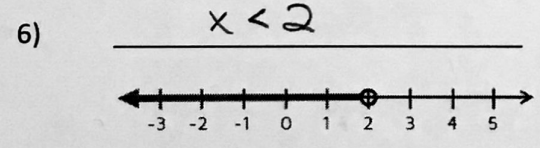
$32a + 2 = 66$

$a = 2$



----- Checkpoint -----

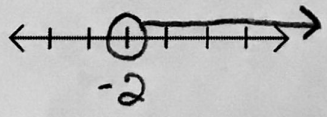
Write the inequality represented on each number line.



Solve for x. Then graph the solutions on the number line.

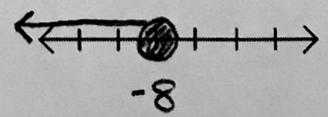
8) $4x + 3 > -5$

$x > -2$

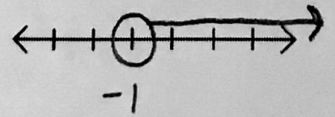


9) $11 - 3x \geq 35$

$x \leq -8$



10) $-6(2x - 4) < 36$



$x > -1$

----- Checkpoint -----

- 11) Brett has a \$30 online gift voucher. He plans to buy as many books as he can. The cost of each book is \$4. There is also a single shipping charge of \$2. What is the maximum number of books he can buy without exceeding his gift voucher?

Inequality: $4x + 2 \leq 30$

Solution(s): $x \leq 7$ books

- 12) Bert already has \$50 but needs a total of at least \$250 for his trip. He gets paid \$12 per day for delivering papers. What is the least number of days he must work to get enough money for his trip?

Inequality: $12x + 50 \geq 250$

$x \geq 16.6$

Solution(s): $x \geq 17$ days

- 13) Chantelle has signed up for hockey. Her parents set a limit of \$400 for costs for the season. It costs \$250 to sign up plus \$5 for each ice-time. What is the maximum number of ice-times that Chantelle can attend?

Inequality: $5x + 250 \leq 400$

Solution(s): $x \leq 30$ ice-times

- 14) Joe's cell phone costs him \$21 per month plus \$3.50 for every 1GB of data downloaded. How many GBs can he download to stay within his monthly budget of \$30?

Inequality: $3.50x + 21 \leq 30$

$x \leq 2.57$

Solution(s): $x \leq 2$ GB

----- Checkpoint -----