Exercises - Compound and Absolute Value Inequalities

1

Which of the following numbers is NOT a solution to the inequality $3-n<-2$ or $2n+3\le -1$?

A) -6

B) -2

C) 2

D) 6

2

Which of the following numbers is a solution to the inequality $5w+7>2$ and $6w-15\le 3(-1+w)$?

A) -1

B) 2

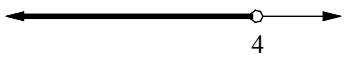
C) 5

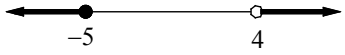
D) 8

3

Which of the following is the graph of $-x\le 5$ and $7-\frac{1}{2}x>x+1$?

A)


B)


C)


D)


4

If $-2<n<-1$, what is the value of $7+\frac{1}{2}n$ rounded to the nearest whole number?

5

Which of the following numbers is NOT a solution to the inequality $\left|\frac{1}{2}x-1\right|\le 1$?

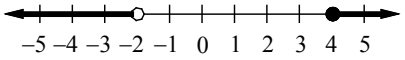
A) 0

B) 2

C) 4

D) 6

6



Which of the following is the compound inequality for the graph above?

A) $x<-2$ or $4\le x$

B) $x\le -2$ or $4<x$

C) $-2<x\le 4$

D) $-2\le x<4$

7

If $\frac{1}{4}x-1\le -x+5$, what is the greatest possible value of x?

8

If $\left|\frac{3}{4}n-2\right|<1$ and n is an integer, what is one possible value of n?