1. 다음 중 일차부등식을 모두 고르면?

① $3(1-x) \leq 3x-1$

② $2x-5 \leq -5-2x$

③ $x^2+5x > 4x-x^2$

④ $x+7-3x < 4-2x$

⑤ $2(x+3) \geq 11+2x$

2. 다음 중에서 일차부등식이 아닌 것은?

① $2x+1>10$

② $x<3x-4$

③ $3-x \geq 2-x$

④ $2x^2-x^2<x^2-x$

⑤ $x^2-2 \leq x^2-x-4$

3. 다음 부등식의 해를 바르게 나타낸 것은?

보기

$$5x + 6 > 2x - 6$$

① $x > -4$ ② $x < -4$ ③ $x > -3$

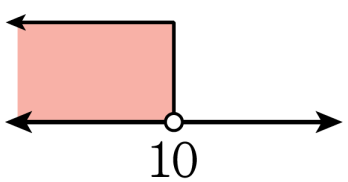
④ $x < -3$ ⑤ $x > 4$

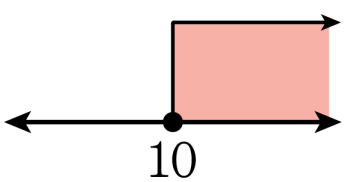
4. 다음 부등식의 해가 $x > 3$ 과 같은 것은?

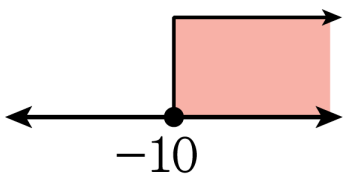
① $x + 8 < 5$ ② $-2x < 6$ ③ $3x > 9$

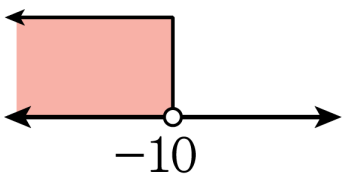
④ $2x + 5 < 5$ ⑤ $x - 3 < 0$

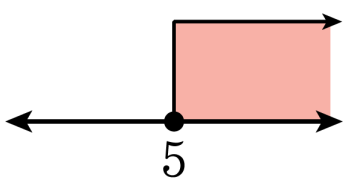
5. 일차부등식 $-\frac{1}{5}x \le 2$ 의 해를 수직선 위에 나타내면?

① 

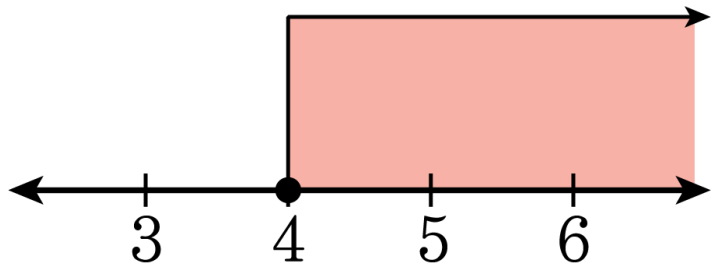
② 

③ 

④ 

⑤ 

6. 다음 중 수직선의 빗금 친 부분을 해로 가지는 일차부등식을 모두 골라라.



㉠ $4x-1 \geq 1$
㉡ $2x-8 \geq 0$
㉢ $2x-8 < 0$
㉣ $x-2 < 2$
㉤ $x-2 \geq 2$

답 : _____

답 : _____

7. $4x+3<3(x+2)$ 를 풀 때, 만족하는 자연수의 개수는?

① 1 개 ② 2 개 ③ 3 개 ④ 4 개 ⑤ 5 개

8. 일차부등식 $\frac{x}{4} - 6 > \frac{3x-2}{5}$ 을 만족하는 x의 값 중 가장 큰 정수를 구하면?

① -17 ② -16 ③ -15 ④ 16 ⑤ 17

9. 일차부등식 $-4\left(x-\frac{1}{3}\right) < -15\left(\frac{1}{3}x-1\right)$을 만족하는 자연수 x의 개수를 구하여라.

답: _____ 개

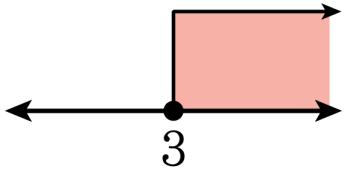
10. x 에 대한 일차부등식 $2x - 3 < 3a$ 의 해가 $x < 12$ 일 때, 상수 a 의 값은?

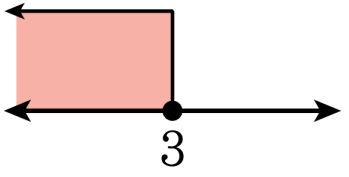
① 4 ② 5 ③ 6 ④ 7 ⑤ 8

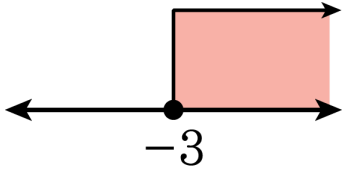
11. 부등식 $8 - 4x \leq a$의 해가 $x \geq 3$일 때, a의 값을 구하여라.

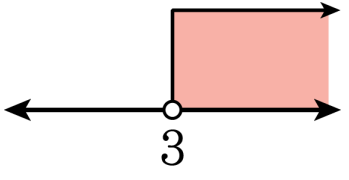
답: _____

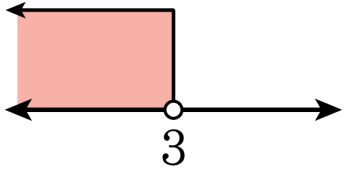
12. $4x-1 \geq -7+6x$ 의 해를 수직선 위에 바르게 나타낸 것은?

① 

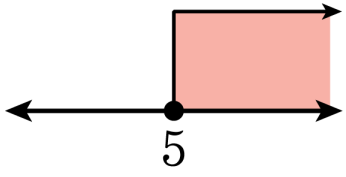
② 

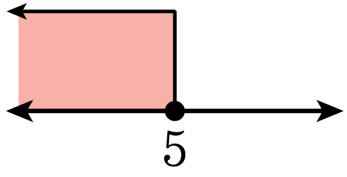
③ 

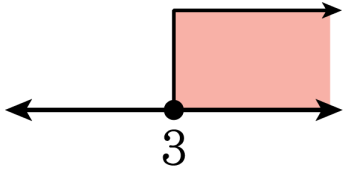
④ 

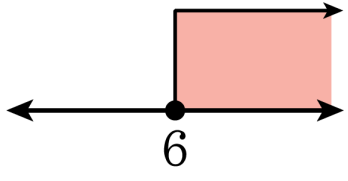
⑤ 

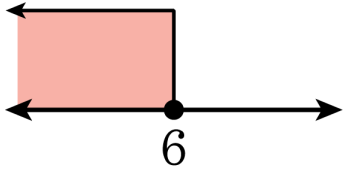
13. $3x+1 \le -5+4x$ 의 해를 수직선 위에 나타내면?

① 

② 

③ 

④ 

⑤ 

14. 다음 수직선은 어느 부등식의 해를 나타낸 것이다. 다음 중 이 부등식이 될 수 <u>없는</u> 것은?

① $2(x+1) \geq 8$ ② $x-3 \geq 0$ ③ $2-3x \geq -7$

④ $x \geq 3$ ⑤ $-\frac{1}{2}x+4 \leq 2.5$

15. 다음은 부등식 $-2(x+2) \le 3(x-2)$ 를 풀고, 해를 수직선 위에 나타내는 과정이다. 처음으로 <u>틀린</u> 곳의 기호를 써라.

$-2(x+2) \le 3(x-2)$ 에서
$-2x+4 \le 3x+6 \cdots$ ㉠
$-2x-3x \le 6+4 \cdots$ ㉡
$-5x \le 10 \cdots$ ㉢
$\therefore x \le -2 \cdots$ ㉣

답: _____

16. 일차부등식 $\frac{x-2}{3} - \frac{5x-3}{4} < 1$을 풀면?

① $x > -1$ ② $x < -1$ ③ $x > 1$

④ $x < 1$ ⑤ $x > -\frac{29}{11}$

17. 일차부등식 $\frac{x-1}{3} - \frac{2x-1}{5} < -1$를 풀어라.

답: _____

18. 다음 부등식을 푼 것으로 <u>틀린</u> 것은?

① $\frac{2}{3}x+\frac{3}{4}>\frac{2}{4}x+\frac{5}{3} \Rightarrow x>\frac{11}{2}$

② $\frac{3}{4}x+\frac{2}{5}<\frac{1}{5}x+\frac{3}{2} \Rightarrow x<2$

③ $(0.4x+0.7)>0.3(x+5) \Rightarrow x>8$

④ $-(0.5x+0.4)>0.2(x+3) \Rightarrow x<-\frac{10}{7}$

⑤ $0.7x-\frac{2}{5}<-\frac{x-4}{2} \Rightarrow x>2$

19. 부등식 $-3x+a \le 8$ 의 해가 $x \ge 1$ 일 때, a 의 값을 구하여라.

답: ____________

20. $\frac{3+2x}{4} - 0.2 < 0.3(x+6)$ 을 만족하는 x 의 값 중에서 가장 큰 정수를 구하여라.

답 : _____

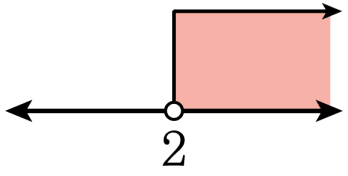
21. 일차부등식 $3x - 7 < x$를 만족하는 자연수를 모두 구하여라.

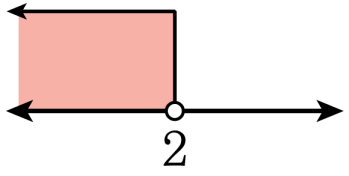
답 : _____

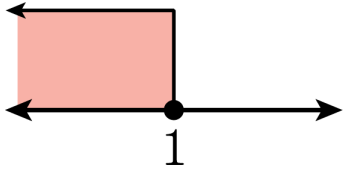
답 : _____

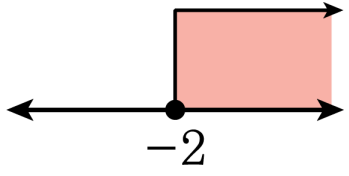
답 : _____

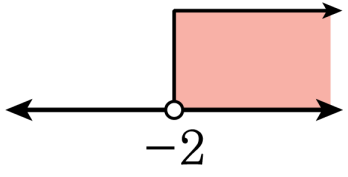
22. 부등식 $2x-2 \le -3x+3$ 의 해를 수직선에 나타낸 것은?

① 

② 

③ 

④ 

⑤ 

23. $3(x+2) > 7(x-1)+1$ 을 만족하는 정수 중 가장 큰 정수를 구하여라.

답: _____

24. $\frac{2x-1}{3} - \frac{5x-3}{4} > 1$ 을 만족하는 x 의 값 중에서 가장 큰 정수는?

① 2 ② 1 ③ 0 ④ -1 ⑤ -2

25. 일차부등식 $\frac{2x+4}{3} \geq -\frac{x-2}{2} + x$ 를 풀면?

① $x \geq -14$ ② $x \geq -2$ ③ $x \geq -10$

④ $x \geq -\frac{1}{3}$ ⑤ $x \leq \frac{14}{5}$