

1. $a < b$ 일 때, 다음 중 부등호가 틀린 것은?

① $a + 4 < b + 4$

② $-5 + a < -5 + b$

③ $3a - 1 < 3b - 1$

④ $\frac{1}{5}a < \frac{1}{5}b$

⑤ $-3a < -3b$

2. $-1 < 3x + 2 < 5$ 일 때, x 의 값의 범위는?

① $0 < x < 1$

② $-1 < x < 2$

③ $\frac{1}{3} < x < 1$

④ $-1 < x < 1$

⑤ $1 < x < 2$

3. 다음 중에서 일차부등식은?

① $7 > -3$

② $3x + x - 2$

③ $4x > 6$

④ $4x - 1 = 7$

⑤ $x + 5 = x^2$

4. 다음 중에서 일차부등식은?

① $2x - 3 = 3x$

② $x + 2 < x - 3$

③ $x + 1 < x^2$

④ $2(3 - x) < x + 3$

⑤ $3x + 2 < -3 + 3x$

5. 일차부등식 $2x - 1 \geq 3x$ 를 풀면?

① $x \leq -1$

② $x \leq 1$

③ $x \geq -1$

④ $x \geq 1$

⑤ $x \geq 2$

6. x 의 범위가 $-2, -1, 0, 1, 2$ 일 때, 일차부등식 $4-x > 3$ 을 참이 되게 하는 x 의 값은?

① -2

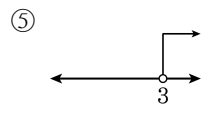
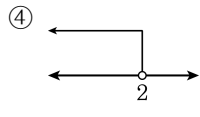
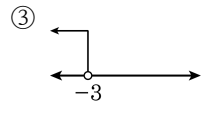
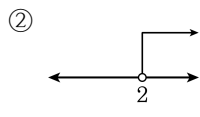
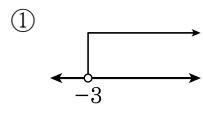
② $-2, -1$

③ $-2, -1, 0$

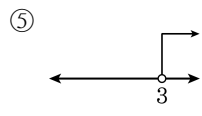
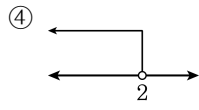
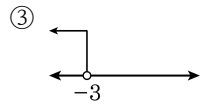
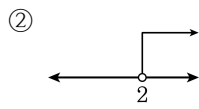
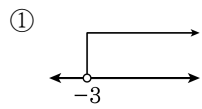
④ 2

⑤ $1, 2$

7. 일차부등식 $-2x + 1 > 7$ 의 해를 수직선 위에 바르게 나타낸 것은?



8. 일차부등식 $-2x - 4 < 2$ 의 해를 수직선 위에 바르게 나타낸 것은?



9. $a \leq b$ 일 때, 다음 중 옳은 것을 보기에서 모두 골라라.

보기

- ㉠ $-5a \leq -5b$
- ㉡ $a \div \left(-\frac{1}{4}\right) \geq b \div \left(-\frac{1}{4}\right)$
- ㉢ $3 - a \leq 3 - b$
- ㉣ $a - (-2) \geq b - (-2)$
- ㉤ $-2a + 6 \geq -2b + 6$

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10. 부등식의 성질 중 옳지 않은 것의 기호를 골라라.

㉠ $a < b$ 이면 $a + c < b + c$, $a - c < b - c$

㉡ $a < b$, $c > 0$ 이면 $ac < bc$, $\frac{a}{c} < \frac{b}{c}$

㉢ $a < b$, $c < 0$ 이면 $ac < bc$, $\frac{a}{c} < \frac{b}{c}$

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11. $-3-5a < -3-5b$ 일 때, 다음 중 옳지 않은 것을 모두 골라라.

$\textcircled{\tiny \neg} \quad \frac{1}{2}a-8 > \frac{1}{2}b-8$	$\textcircled{\tiny \cup} \quad 3-\frac{1}{3}a > 3-\frac{1}{3}b$
$\textcircled{\tiny \subseteq} \quad 2a-2b+7 > 7$	$\textcircled{\tiny \supset} \quad \frac{5a-4}{3} < \frac{5b-4}{3}$

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12. $-6 \leq x < 2$ 일 때, $A < 1 - \frac{x}{2} \leq B$ 라고 한다. 이때, $B - A$ 의 값은?

① 0

② 1

③ 2

④ 3

⑤ 4

13. $-1 < x \leq 3$, $A = 5 - 2x$ 일 때, 정수 A 의 개수는?

- ① 4개 ② 5개 ③ 6개 ④ 7개 ⑤ 8개

14. 다음 중 일차부등식이 아닌 것을 모두 구하여라.

㉠ $2x > 6$	㉡ $x^2 + 2 < x^2 + 2x + 2$
㉢ $x + 1 = 2x + 3$	㉣ $x > 9$
㉤ $3x + 2 < 3x + 3$	㉥ $\frac{1}{x} - x > x + 3$

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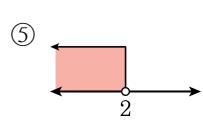
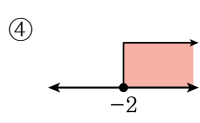
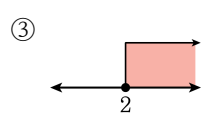
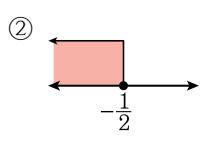
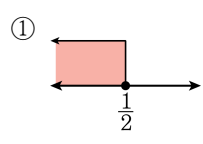
15. 다음 중 부등식의 해가 나머지 넷과 다른 하나는?

- ① $3x - 1 < 14$ ② $-x + 2 > -3$ ③ $\frac{1}{5}x - 3 < -2$
④ $-x + 7 < 2$ ⑤ $4x < 15 + x$

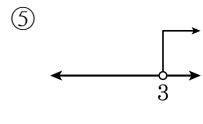
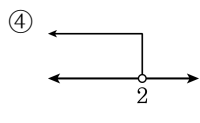
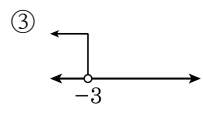
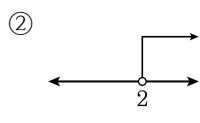
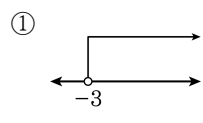
16. 일차부등식 $3x - \frac{3x-3}{2} \leq 3$ 을 만족시키는 가장 큰 정수를 구하여라.

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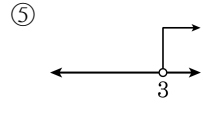
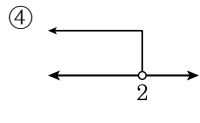
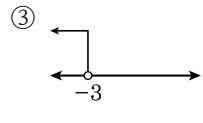
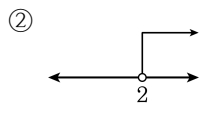
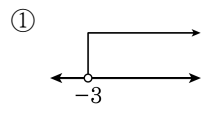
17. 부등식 $-x + 1 \leq 2x - 5$ 의 해를 수직선 위에 옳게 나타낸 것은?



18. 일차부등식 $2(x+1) < 6$ 의 해를 수직선 위에 바르게 나타낸 것은?



19. 일차부등식 $3x - 5 > 4$ 의 해를 수직선 위에 바르게 나타낸 것은?



20. $-1 \leq -3a + 5 < 2$ 일 때, a 의 값의 범위를 구하여라.

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21. $x < 4$ 일 때, $-2x + 1$ 의 값의 범위는?

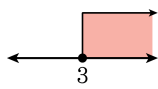
- ① $-2x + 1 < -7$ ② $-2x + 1 > -7$ ③ $-2x + 1 < 7$
④ $-2x + 1 > 7$ ⑤ $-2x + 1 \leq 7$

22. $x < -3$ 일 때, $-4x + 6$ 의 식의 값의 범위를 구하여라.

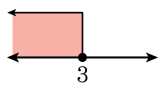
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23. $4x - 1 \geq -7 + 6x$ 의 해를 수직선 위에 바르게 나타낸 것은?

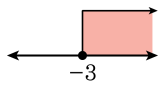
①



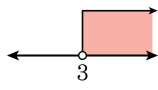
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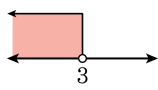
③



④



⑤



24. 다음 수직선은 어느 부등식의 해를 나타낸 것이다. 다음 중 이 부등식이 될 수 없는 것은?



① $2(x+1) \geq 8$

② $x-3 \geq 0$

③ $2-3x \geq -7$

④ $x \geq 3$

⑤ $-\frac{1}{2}x+4 \leq 2.5$

25. $a > b$, $ac > bc$, $ac = 0$ 일 때, a , b , c 의 값 또는 부호를 구하면?

① $a > 0$, $b < 0$, $c = 0$

② $a < 0$, $b > 0$, $c = 0$

③ $a = 0$, $b > 0$, $c < 0$

④ $a = 0$, $b < 0$, $c > 0$

⑤ $a = 0$, $b < 0$, $c < 0$