

Batch 4fad2923

Inequalities

Version 1

Match the text to the math symbols.

- (1) a is greater than or equal to b (A) $a \ni b$
- (2) a is less than b (B) $a \in b$
- (3) a is less than or equal to b (C) $a < b$
- (4) a is not equal to b (D) $a > b$
- (5) a is greater than b (E) $a \leq b$
- (F) $a \neq b$
- (G) $a \geq b$
- (H) $a \approx b$
-

- (6) Little league players must be at least 9 years old and no more than 12 years old. If x is the age of a little league player, then:
- A. $x \leq 9$ and $x \geq 12$
- B. $x < 9$ and $x \geq 12$
- C. $x \in 9$ and $x \ni 12$
- D. $x \geq 9$ and $x \leq 12$
- (7) if $a > b$ and $b < c$, then:
- A. $a < c$
- B. $a > c$
- C. $a = c$
- D. we can say nothing about a and c

- (8) Solve for x when

$$9x + 2 < 29$$

- A. $x \geq 3$
- B. $x \leq 3$
- C. $x < 3$
- D. $x > 3$

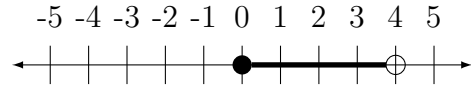
- (9) Select x to satisfy

$$1.5x^2 - 16.2x + 24.3 > 0$$

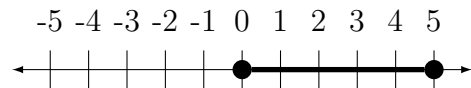
- A. $x = -6.4$
- B. $x = 3.7$
- C. $x = 5.2$
- D. $x = 7.2$

Select the set of inequalities which match the number line.

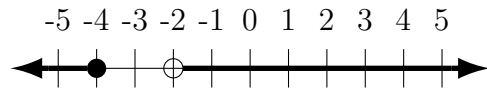
- (10) A. $x < 0$ or $x > 4$
 B. $x > 0$ and $x < 4$
 C. $x \geq 0$ and $x < 4$
 D. $x \leq 0$ or $x \geq 4$



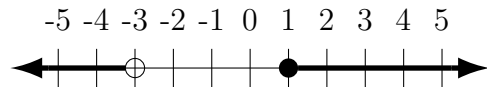
- (11) A. $x \geq 0$ and $x < 5$
 B. $x \leq 0$ or $x > 5$
 C. $x \geq 0$ and $x \leq 5$
 D. $x > 0$ and $x < 5$



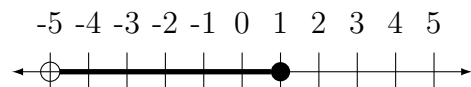
- (12) A. $x > -4$ and $x \leq -2$
 B. $x \geq -4$ and $x < -2$
 C. $x < -4$ or $x \geq -2$
 D. $x \leq -4$ or $x > -2$



- (13) A. $x \leq -3$ or $x > 1$
 B. $x < -3$ or $x \geq 1$
 C. $x \geq -3$ and $x < 1$
 D. $x \leq -3$ or $x \geq 1$



- (14) A. $x > -5$ and $x \leq 1$
 B. $x > -5$ and $x < 1$
 C. $x \leq -5$ or $x > 1$
 D. $x < -5$ or $x \geq 1$



Batch 4fad2923

Inequalities

Version 2

Match the text to the math symbols.

- (1) a is less than b (A) $a > b$
- (2) a is greater than b (B) $a \leq b$
- (3) a is less than or equal to b (C) $a \ni b$
- (4) a is greater than or equal to b (D) $a < b$
- (5) a is not equal to b (E) $a \neq b$
- (F) $a \approx b$
- (G) $a \in b$
- (H) $a \geq b$
-

- (6) Little league players must be at least 9 years old and no more than 12 years old. If x is the age of a little league player, then:
- A. $x \geq 9$ and $x \leq 12$
- B. $x \leq 9$ and $x > 12$
- C. $x > 9$ and $x < 12$
- D. $x > 9$ and $x \leq 12$
- (7) if $a > b$ and $b < c$, then:
- A. $a < c$
- B. $a > c$
- C. $a = c$
- D. we can say nothing about a and c

- (8) Solve for x when

$$9x + 1 \in 73$$

- A. $x \geq 8$
- B. $x \leq 8$
- C. $x > 8$
- D. $x < 8$

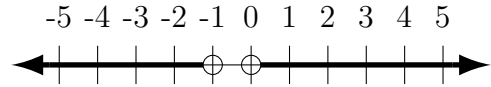
- (9) Select x to satisfy

$$9x^2 + 53.1x - 229.68 < 0$$

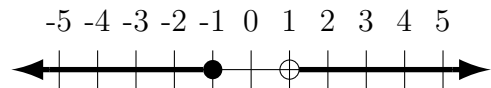
- A. $x = -8.7$
- B. $x = 0.4$
- C. $x = 1.9$
- D. $x = 4.1$

Select the set of inequalities which match the number line.

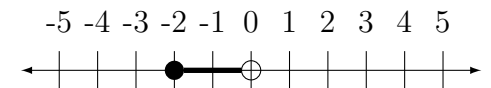
- (10) A. $x < -1$ or $x > 0$
 B. $x > -1$ and $x \leq 0$
 C. $x \leq -1$ or $x \geq 0$
 D. $x > -1$ and $x < 0$



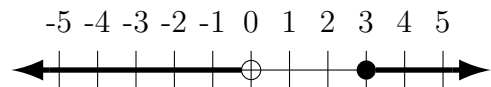
- (11) A. $x < -1$ or $x \geq 1$
 B. $x > -1$ and $x \leq 1$
 C. $x \leq -1$ or $x > 1$
 D. $x \geq -1$ and $x \leq 1$



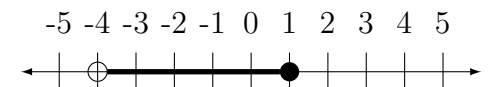
- (12) A. $x \geq -2$ and $x < 0$
 B. $x \leq -2$ or $x \geq 0$
 C. $x > -2$ and $x < 0$
 D. $x < -2$ or $x \geq 0$



- (13) A. $x \leq 0$ or $x \geq 3$
 B. $x \leq 0$ or $x > 3$
 C. $x < 0$ or $x > 3$
 D. $x < 0$ or $x \geq 3$



- (14) A. $x > -4$ and $x \leq 1$
 B. $x \geq -4$ and $x \leq 1$
 C. $x < -4$ or $x > 1$
 D. $x \geq -4$ and $x < 1$



Version 1

(1) C
(2) D
(3) E
(4) G
(5) F
(6) D (7) D
(8) C (9) A
(10) C
(11) C
(12) D
(13) B
(14) A

Version 2

(1) D
(2) A
(3) B
(4) H
(5) E
(6) A (7) D
(8) E (9) D
(10) A
(11) C
(12) A
(13) D
(14) A