

Inequality Review



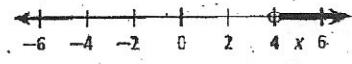
WORK
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1. Which inequality is represented by this graph?



- A. $4 - p < -7$
- B. $4 - p > -7$
- C. $4 - p \geq -7$
- D. $4 - p \leq -7$

2. Which inequality is represented by this graph?



- A. $5 - x > 4$
- B. $2x + 1 \geq 9$
- C. $2x - 5 > 3$
- D. $6x - 7 > 5$

3. What is the solution to the following inequality?

$$-5(6y + 22) < -12y + 70$$

- A. $y < 8.3$
- B. $y > \frac{8}{3}$
- C. $y < -10$
- D. $y > -10$

4. Which inequalities have $x < -5$ as a solution?

Inequality I	Inequality II
$-3x < 15$	$x - 9 < -14$
Inequality III	Inequality IV
$-7x > 35$	$x + 6 < 1$

- A. All of them
- B. None of them
- C. All but I
- D. All but III

5. Nick figured out that in order to have enough money, $h > 4.5$ represented how many hours he needed to work. Which of the following describes Nick's situation?

- A. Nick has to work more than $4\frac{1}{2}$ hours.
- B. Nick has to work at least $4\frac{1}{2}$ hours.
- C. Nick has to work no more than $4\frac{1}{2}$ hours.
- D. Nick has to work fewer than $4\frac{1}{2}$ hours.

6. Jensine earns \$6 per hour babysitting. She is saving to buy an MP3 player that costs \$150, but she does not yet have enough money. If h represents the number of hours she has spent babysitting, which inequality describes her situation?

- A. $6h < 150$
- B. $6h > 150$
- C. $150 - h > 6$
- D. $20 + 6h < 150$

11-12 Inequality Quiz notebook

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7. Filomena had at most 60 minutes in which to complete her exam. If m represents the number of minutes, which inequality best describes this situation?

- A. $m > 60$
- B. $m \geq 60$
- C. $m < 60$
- D. $m \leq 60$

8. Which is the solution to this inequality?

$$\frac{x}{6} - 2 < 5$$

- A. $x < \frac{1}{2}$
- B. $x > 18$
- C. $x < 42$
- D. $x > 42$

~~p. 12~~

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9. Which inequality has the solution $w \geq -14$?

- A. $16 - 3w \leq 58$
- B. $-3w + 1 \leq 38$
- C. Both A and B
- D. Neither A nor B

10. Which inequality has the solution $v \geq 2$?

- A. $8 - 3v \geq 2$
- B. $7v + 9 \geq 23$
- C. $3 - 5v \geq 10$
- D. $-2v - 7 \geq -3$

11. At a carnival, the cost to play a bowling game is \$2 plus \$0.40 for each attempt to knock over the pins. Which inequality would you use to find the number of attempts you can make if you have \$4.30?

- A. $4.3 \leq 0.4a + 2$
- B. $0.4a + 2 \leq 4.3$
- C. $2 + 0.4a < 4.3$
- D. $2 + 0.4a > 4.3$

12. Tom earns \$100 to start a painting job and \$35 per hour to complete it. All jobs he accepts earn him at least \$500. If h represents the number of hours spent painting, which inequality describes Tom's situation?

- A. $100 + 35h > 500$
- B. $100 + 35h \geq 500$
- C. $100 + 35h < 500$
- D. $100 + 35h \leq 500$

13. Karita has a total of 391 points on five tests. To earn a B, she has to have at least 480 points on six tests. Which inequality can she use to determine what she needs to score on her next test, t , in order to earn a B?

- A. $391 + t \leq 480$
- B. $480 + t \geq 391$
- C. $t - 391 \leq 480$
- D. $391 + t \geq 480$

14. Soyeon determined that she had $m \leq 45$ minutes left to practice her piano playing. Which of the following describes Soyeon's situation?

- A. She has at least 45 minutes left.
- B. She has less than 45 minutes left.
- C. She has at most 45 minutes left.
- D. She has over 45 minutes left.