

Day_4_Independent Practice_

1.

A(n) _____ is a mathematical sentence in which the two sides are not equal and are separated with the symbols $<$, $>$, \leq or \geq .

- a. Equation
- b. Equality
- c. Inequality
- d. Expression

Answer:

2.

Which shows the inequality for numbers greater than 80?

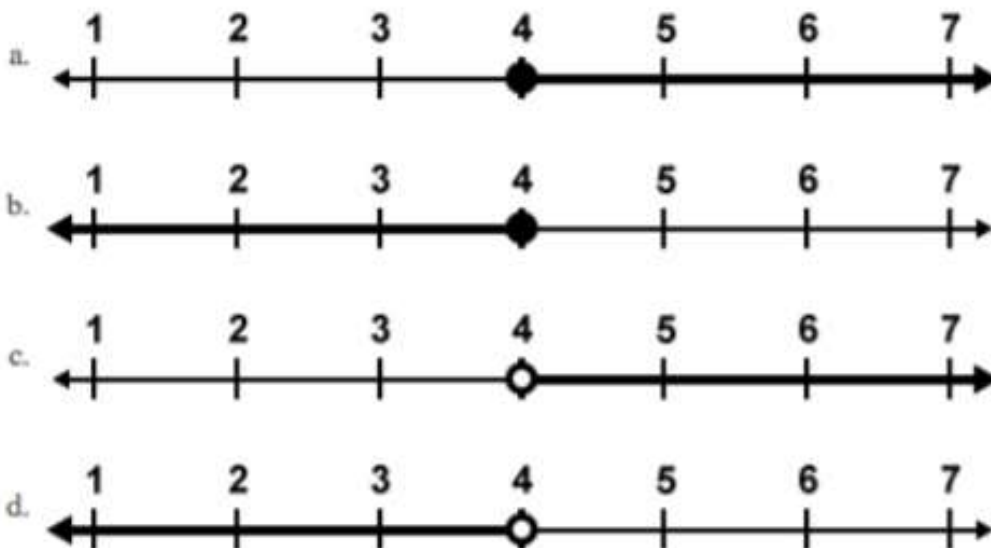
- a. $n > 80$
- b. $n \geq 80$
- c. $n < 80$
- d. $n \leq 80$

Answer:

3.

Which number line best shows the inequality below?

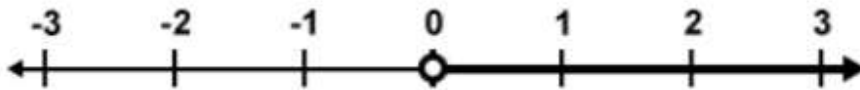
$$x < 4$$



Answer:

4.

Which phrase best describes the number line?



- a. any number less than zero
- b. any number greater than zero
- c. any number less than or equal to zero
- d. any number greater than or equal to zero

Answer:

5.

Which value from the number set $\{3, 7, 9, 12\}$ makes the inequality $q < 5$ true?

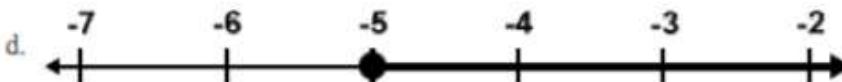
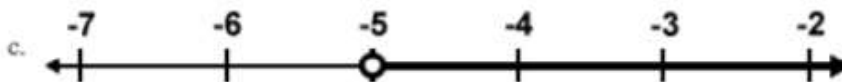
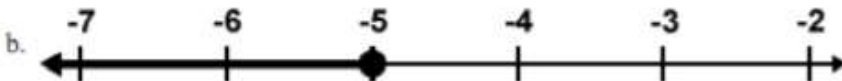
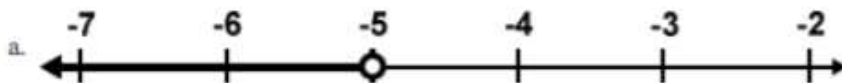
- a. 3
- b. 7
- c. 9
- d. 12

Answer:

6.

Select the number line that best represents the following statement.

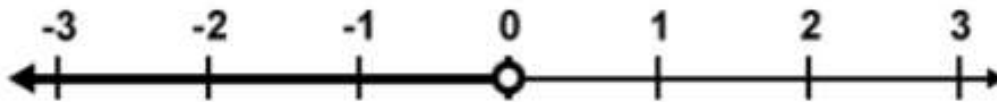
any number less than negative five



Answer:

7.

Which phrase best describes the number line?

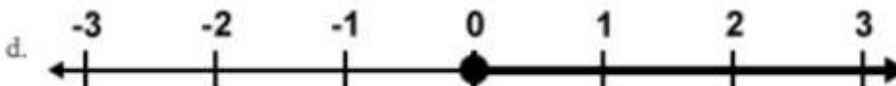
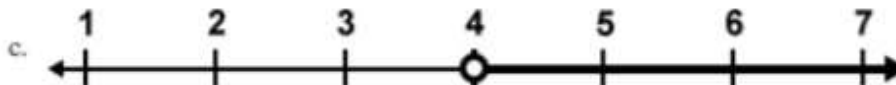
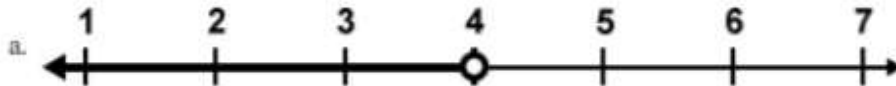


- a. any number less than zero
- b. any number greater than zero
- c. any number less than or equal to zero
- d. any number greater than or equal to zero

Answer:

8.

The highest temperature reached on Monday was 4°C . Which number line could represent this situation?



Answer:

9.

Which value would make the inequality false?

$$a \geq 18$$

- a. 33
- b. 17
- c. 21
- d. 19

Answer:

10.

Iman wrote the inequality below to represent the money, x , that she has. Which situation is correctly represented by the inequality?

$$x > 12$$

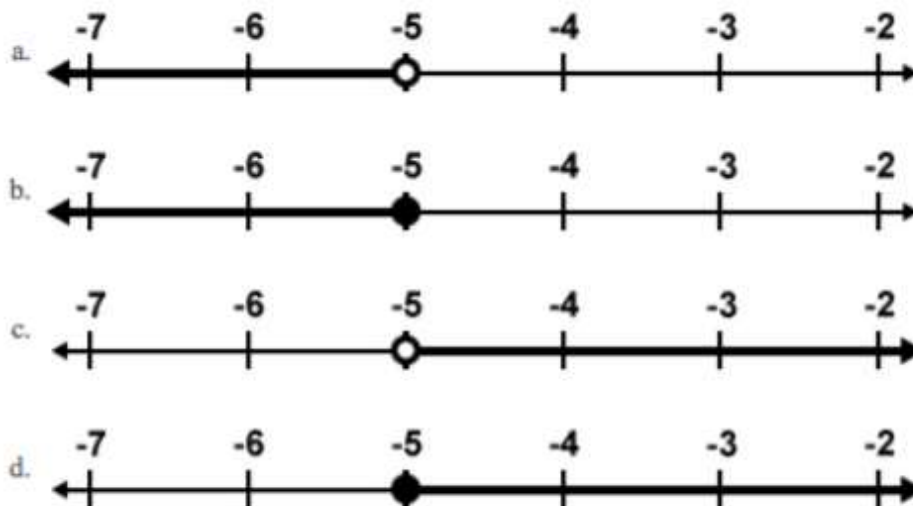
- a. Iman has at least \$12.
- b. Iman has more than \$12.
- c. Iman has less than \$12.
- d. Iman has no more than \$12.

Answer:

11.

Which number line best shows the inequality below?

$$x > -5$$



Answer:

12.

For a spacecraft to be launched from Earth into orbit, it must move faster than 25,000 miles per hour. Which could be an inequality that represents v , the velocity in miles per hour, of a spacecraft launching into orbit?

- a. $v < 25,000$
- b. $v > 25,000$
- c. $v \leq 25,000$
- d. $v \geq 25,000$

Answer:

13.

Destiny wanted the temperature to be no more than 75 degrees. Which inequality shows that?

- a. $t < 75$
 - b. $t \leq 75$
 - c. $t \geq 75$
 - d. $t = 75$
-

Answer:

14.

Select the number(s) that make the inequality true. You may select one or more answers.

$$t < 23$$

- a. 21
 - b. 22
 - c. 23
 - d. 24
-

Answer:

15.

Let x represent any number in the set $\{3, 6, 7, 9\}$.

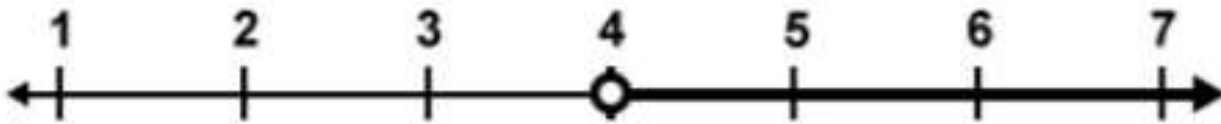
Which inequality is true for all values of x ?

- a. $x > 5$
 - b. $x < 5$
 - c. $x > 10$
 - d. $x < 10$
-

Answer:

16.

The solution of which inequality is shown by the number line?

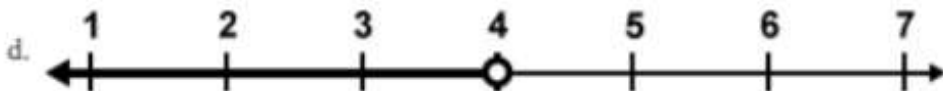
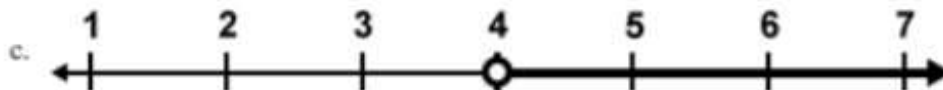


- a. $x \geq 4$
- b. $x \leq 4$
- c. $x > 4$
- d. $x < 4$

Answer:

17.

Mike needs to earn at least \$4 to buy a new deck of cards. Which number line could represent this situation?

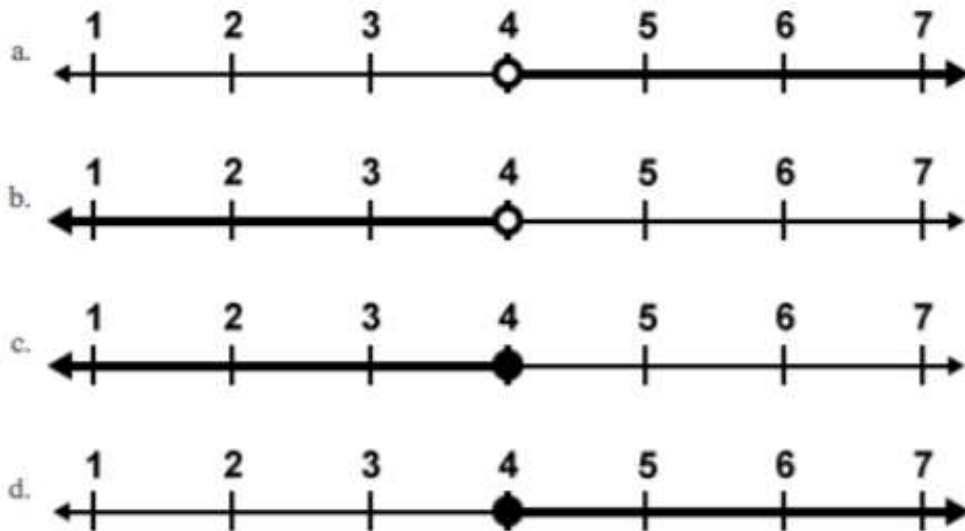


Answer:

18.

Which number line best shows the inequality below?

$$x \leq 4$$



Answer:

19.

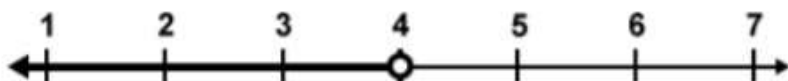
Thomas has at least \$20 to spend this week. Which statement reflects that?

- a. $x < 20$
- b. $x > 20$
- c. $x \leq 20$
- d. $x \geq 20$

Answer:

20.

The solution of which inequality is shown by the number line?



- a. $x \geq 4$
- b. $x > 4$
- c. $x < 4$
- d. $x \leq 4$

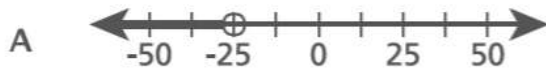
Answer:

The library has at least 5,000 books. Which inequality represents the number of books, b , at the library?

- A $b > 5,000$
- B $b \geq 5,000$
- C $b < 5,000$
- D $b \leq 5,000$

Answer:

Which number line shows a graph of the inequality $x > -25$?



Answer:

Which statement describes every number that is a solution to the inequality $6t > 48$?

- A It has a value greater than 8.
- B It has a value less than 8.
- C It has a value equal to 8.
- D Its value is 8 greater than 48.

Answer:

Which value or values for the variable c from the set below will make $5.6 + 0.4c \leq 6c$ true?

{0, 0.875, 1, 2.5}

- A only 2.5
 - B 1 and 2.5
 - C 0.875, 1, and 2.5
 - D all values in the set
-

Answer:

George has \$23 to spend on art supplies. He wants to buy markers, paper, and glue. If the total cost of the markers and paper is more than \$14, which inequality represents the dollar amount, p , George can spend on glue?

- A $p < 9$
 - B $p > 9$
 - C $p < 37$
 - D $p > 37$
-

Answer:

Guests must be at least $42\frac{1}{2}$ inches tall to go on an amusement park ride. Which inequality represents the heights of the guests allowed on the ride?

- A $h \geq 42\frac{1}{2}$
- B $h > 42\frac{1}{2}$
- C $h \geq 43$
- D $h > 43$

Answer: