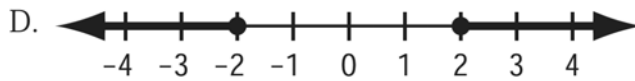
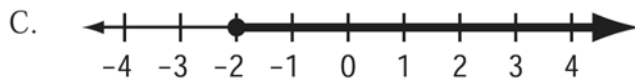
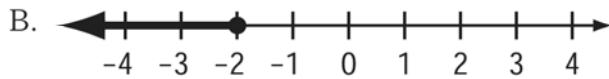
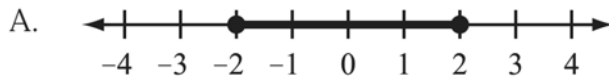


1

Mark your answer here: 1. (A)(B)(C)(D)

Which of the following graphs represents the solution of the inequality below?

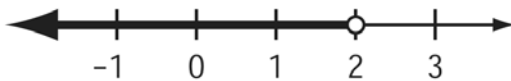
$$|x| \leq 2$$



2

Which of the following inequalities is graphed on the number line below?

Mark your answer here: 2. (A)(B)(C)(D)

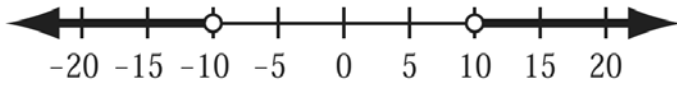


- A. $x < 2$
- B. $x \leq 2$
- C. $x > 2$
- D. $x \geq 2$



- 3 The graph below is the solution of which of the following inequalities?

Mark your answer here: 3. (A)(B)(C)(D)



- A. $|x| > 10$
- B. $|x| < 10$
- C. $x > 10$
- D. $x < -10$

- 4 Joshua is designing a rectangular mirror.

Mark your answer here: 4. (A)(B)(C)(D)

- He let w = the width, in inches, of the mirror.
- The length of the mirror will be 6 inches more than the width.
- The perimeter of the mirror will be less than 96 inches and greater than 76 inches.

Which of the following inequalities shows the possible widths, in inches, of the mirror?

- A. $13 < w < 18$
- B. $16 < w < 21$
- C. $19 < w < 24$
- D. $35 < w < 45$



5

A technician earns \$75 per hour working on computers. She has monthly business expenses of \$800. Her profit is the difference between her monthly earnings and her monthly business expenses.

Which of the following inequalities can be used to find the number of hours, x , the technician will have to work on computers in a month to make a profit of more than \$2000?

- A. $800 - 75x < 2000$
- B. $75x - 800 < 2000$
- C. $800 - 75x > 2000$
- D. $75x - 800 > 2000$

Mark your answer here: 5. (A)(B)(C)(D)

6

What is the solution of the equation below?

$$2x - 6 = 8$$

Write your answer here:

