

**Inequalities and Absolute Value
MCAS Worksheet 1**

Name _____

- 1** Which of the following is the solution to the inequality below?

Mark your answer here: 1. A B C D

$$3 - 2x \leq 7$$

- A. $x \leq -2$
- B. $x \geq -2$
- C. $x \leq -5$
- D. $x \geq -5$

- 2** Which of the following defines the solution set for the inequality shown below?

Mark your answer here: 2. A B C D

$$-2x + 3 \geq 6$$

- A. $x \geq -\frac{9}{2}$
- B. $x \leq -\frac{9}{2}$
- C. $x \geq -\frac{3}{2}$
- D. $x \leq -\frac{3}{2}$



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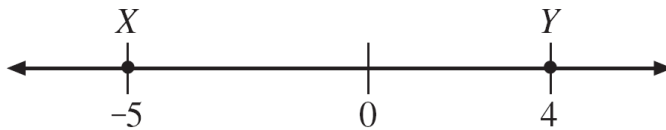
- 3** Which of the following is the solution to the inequality below?

$$-4x - 7 < 5$$

- A. $x > -\frac{1}{2}$
- B. $x < -\frac{1}{2}$
- C. $x > -3$
- D. $x < -3$

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

- 4** The number line below shows points X and Y with coordinates -5 and 4 respectively.



Which of the following expressions represents the distance from point X to point Y?

- A. $|4 - 5|$
- B. $|4 - (-5)|$
- C. $(4 - 5)^2$
- D. $(4 - (-5))^2$

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



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For which of the following values of x and y is the following inequality true?

$$x < \sqrt{14} < y$$

- A. $x = 2.5$ and $y = 3.0$
- B. $x = 3.0$ and $y = 3.5$
- C. $x = 3.5$ and $y = 4.0$
- D. $x = 4.0$ and $y = 4.5$

Mark your answer here: 5. A B C D

6

What are the solutions to the equation below?

$$|7 - 2x| = 3$$

- A. $x = 7$ or 3
- B. $x = 2$ or 5
- C. $x = -3$ or 7
- D. $x = -2$ or 5

Mark your answer here: 6. A B C D



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All test items have been released to the public by the Massachusetts Department of Elementary and Secondary Education.