Quick Checks

Name:_____

KDS Grade 6 Math Quick Check: 6.EE.B One—Variable Equations and Inequalities (Form A)

Directions: Answer all questions. When you are finished with a page, go on to the next page.

Read questions 1 through 5 and select the best answer.

1 **Which of the following inequalities is true when $x = 9$?**

Ⓐ $5x - 5 < 40$

Ⓑ $3x - 4 > 30$

Ⓒ $6x + 4 < 30$

Ⓓ $4x + 5 > 40$

2 **Which value of x makes this equation true?**
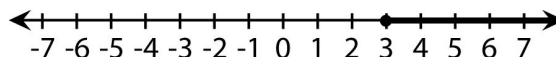
$$2x + 2 = 52$$

Ⓐ 25

Ⓑ 27

Ⓒ 50

Ⓓ 54

3 **Noah needs to bring 36 cookies to his class. He has baked 20 cookies so far. Which equation can be used to find n, the number of additional cookies Noah still needs to bake?**

Ⓐ $n + 20 = 36$

Ⓑ $n + 36 = 20$

Ⓒ $n - 20 = 36$

Ⓓ $n \times 36 = 20$

4 **Andi bought some bananas that cost $1.29 per pound. The total cost was $3.23. Which equation can be solved to find x, the weight in pounds of the bananas Andi bought?**

Ⓐ $x + 1.29 = 3.23$

Ⓑ $1.29x = 3.23$

Ⓒ $x - 1.29 = 3.23$

Ⓓ $1.29 \div x = 3.23$

5 **Look at the number line below.**

-7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7

Which of the following inequalities has the solution shown on the number line?

Ⓐ $2x + 4 \geq 10$

Ⓑ $2x - 4 > 10$

Ⓒ $2x + 4 > 10$

Ⓓ $2x - 4 \geq 10$

Go On

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Complete question 6 in the space below.

6 | **Look at this equation.**

$$x + 4 = 7$$

A. Solve the equation for *x*. Show your work or explain how you know your solution is correct.

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B. Solve the inequality below. Explain how the solution is related to the solution of the equation in part A.

$$x + 4 < 7$$

C. On the number line below, graph the solution to the inequality in part B.

— 3 —