



# Mathematics Grade 6

## Ready EOG Practice 6.EE.5 (Solving Equations and Inequalities)

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Rockingham County

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1. What is the value of the expression,  $r + 1,988$  if  $r$  is 2,976?

A. 5,064  
B. 4,964  
C. 3,854  
D. 3,012

2. The formula  $C = \frac{5}{9}(F - 32)$  can be used to determine the Celsius,  $C$ , temperature given the Fahrenheit,  $F$ , temperature. What is  $88^\circ$  F equal to in Celsius to the nearest degrees?

A.  $30^\circ$  C  
B.  $31^\circ$  C  
C.  $32^\circ$  C  
D.  $33^\circ$  C

3. If  $y - 8 = 5x$ , what is  $x$  when the value of  $y = -87$ ?

A. 19  
B. 16  
C. -16  
D. -19

4. Which of the following values for  $m$  makes this equation true?

$$8 + m = 27$$

A. 15  
B. 19  
C. 21  
D. 35

5. Which value for  $w$  makes the equation true?

$$19 - w = 7$$

A. 6  
B. 11  
C. 12  
D. 26

6. Which set contains *only* values that satisfy the given inequality?

$$14 > x - 7$$

A. {28, 10, 0}  
B. {15, 0, 1}  
C. {28, 42, 80}  
D. {29, 14, 0}

7. Which satisfies the given inequality?

$$6x < 24$$

- A. 10  
B. 8  
C. 6  
D. 2
8. Basketballs cost \$24. A physical education teacher spent \$312 on basketballs for the school.

Which equation can be used to determine the number ( $n$ ) of basketballs the physical education teacher purchased?

- A.  $24 + n = 312$   
B.  $\frac{24}{n} = 312$   
C.  $24n = 312$   
D.  $24 = 312 - n$
9. An inequality is written in the box.

$$36 > 9n$$

Which numbers can replace  $n$  to make the inequality true?

- A. 0, 1, 2, 3, 4  
B. 0, 1, 2, 3  
C. any number greater than 4  
D. any number greater than or equal to 4

10. Which number is a solution to the inequality  $72 < 4n$ ?

- A.  $n = 19$   
B.  $n = 18$   
C.  $n = 17$   
D.  $n = 16$

#	Answer	Objective
1.	B	Obj : 6.EE.5. Understand solving an equation or inequ...
2.	B	Obj : 6.EE.2. Write, read, and evaluate expressions i...
3.	D	Obj : 6.EE.5. Understand solving an equation or inequ...
4.	B	Obj : 6.EE.5. Understand solving an equation or inequ...
5.	C	Obj : 6.EE.5. Understand solving an equation or inequ...

#	Answer	Objective
6.	B	Obj : 6.EE.5. Understand solving an equation or inequ...
7.	D	Obj : 6.EE.5. Understand solving an equation or inequ...
8.	C	Obj : 6.EE.2. Write, read, and evaluate expressions i...
9.	B	Obj : 6.EE.5. Understand solving an equation or inequ...
10.	A	Obj : 6.EE.5. Understand solving an equation or inequ...

Objectives Measured:	Items	Questions measuring this objective
Obj : 6.EE.5. Understand solving an equation or inequ...	8	1, 3, 4, 5, 6, 7, 9, 10
Obj : 6.EE.2. Write, read, and evaluate expressions i...	2	2, 8

#	Key	Item ID
1.	B	MC 34008
2.	B	MC 43039
3.	D	MC 43035
4.	B	MC 124931
5.	C	MC 124932

#	Key	Item ID
6.	B	MC 124933
7.	D	MC 124935
8.	C	MC 139669
9.	B	MC 139670
10.	A	MC 140123