

Name: \_\_\_\_\_ Class: \_\_\_\_\_ Date: \_\_\_\_\_

ID: B

Algebra I CP Block Exam 1 Review

Numeric Response

1. Evaluate  $-c - 6d + 7cd$  for  $c = 2$  and  $d = 5$

0	0	0	0	0	0	0	0	0
1	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0

~~P~~  
E  
~~NO~~  
75 L-R  
14(5)

$-(2) - 6(5) + 7(2)(5)$

$-(2) - 30 + 70$

$-32 + 70$  L-R

10P 10P 10P 10P 10P 10P 10P  
+P -10P -10P -10P -10P -10P -10P

$38$

2.  $3 - 2[(8-2)^2 + 7]$

-								
0	0	0	0	0	0	0	0	0
1	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0

$3 - 2[(6)^2 + 7]$

$3 - 2[36 + 7]$

$3 - 2[43]$

$3 - 86$

$-83$

Multiple Choice

Identify the choice that best completes the statement or answers the question.

3. Evaluate  $7(n - 2) + 8$  for  $n = 4$ .

- a.  $7(4n - 2) + 8$
- b. 22

- c. 34
- d. 50

$7(4-2) + 8$

$7(2) + 8$

$14 + 8$

4. 3 times the sum of  $c$  and  $q$

- a.  $3cq$
- b.  $3 + c + q$

- c.  $3(c + q)$
- d.  $3c + q$

$3(c + q)$

Name: \_\_\_\_\_

ID: A

Name: \_\_\_\_\_

5. The temperature on the ground during a plane's takeoff was  $-9^{\circ}\text{F}$ . At 38,000 feet in the air, the temperature outside the plane was  $-28^{\circ}\text{F}$ . Find the difference between these two temperatures.

a.  $19^{\circ}\text{F}$

b.  $-37^{\circ}\text{F}$

d.  $-19^{\circ}\text{F}$

~~c.  $37^{\circ}\text{F}$~~   $-9 - (-28)$

$-9 + 28 \rightarrow 19$

6. Simplify the expression

$8 - 4(-12x + 6)$

$\rightarrow 8 + 48x - 24$

a.  $48x - 16$

b.  $48x + 32$

c.  $48x + 14$

d.  $-48x + 24$

$48x - 16$

7. Write a word phrase for the algebraic expression:  $23t - 2$

a. 2 times the sum of  $t$  and 23

b. 23 divided into  $t$

c. the quotient of  $t$  and 23

d. 2 less than  $t$  times 23

Division

8. Which word phrase could represent the variable expression  $2p + 3$ ?

a. ~~half Sam's age times three~~

b. three more than Sam's age doubled

c. ~~three times Sam's age~~

d. ~~twice Sam's age times three~~

$3p$

$2p + 3$

9. Write the phrase "the sum of  $z$  and 7" as an algebraic expression.

a.  $7 \cdot z$

b.  $7 - z$

$z + 7$

c.  $z \cdot 7$

d.  $z + 7$

Name: \_\_\_\_\_

10. What equation models the data in the table if  $d$  = number of days and  $c$  = cost?

Days	Cost
2	18
4	37
6	56
8	75

19  
38  
57

a.  $c = 10d$

b.  $d = 10c$

c.  $c = d + 10$

d.  $c = 19d$

11. Simplify  $21 \div (3) \cdot 2^2 - 7$

a. 35

b. 49

c. 7

d. 7

$21 \div (3) \cdot 2^2 - 7 \rightarrow 2 \times 2 \times 2$

$21 \div 3 \cdot 8 - 7$

$7 \cdot 8 - 7$

$56 - 7 \rightarrow 49$

~~PF~~  
~~PF~~  
49  
~~PF~~

12. Name the like terms in the expression  $5a + 8 - 3a + 11$ .

a.  $5a, 8$

b.  $5a, 3a$

c.  $8, 11$

d.  $5a, -3a$

13. The number of line segments between  $n$  points is  $\frac{1}{2}(n^2 - n)$ . Use the formula to find the number of segments between 10 points.

a. 20 segments

b. 90 segments

c. 45 segments

d. 40 segments

$1/2(n^2 - n) \rightarrow 1/2(100 - 10) \rightarrow 1/2(90)$   
 $45$

14. Simplify  $4^2 - 16 \cdot 5 + 4 + 6$ .

a. 39

b. 33

c. 44.75

d. -2.25

15. Simplify  $9 \div (3) \cdot 4^2 - 2$

a. 46

b. 18

c. 22

d. 42

$9 \div (3) \cdot 4^2 - 2 \rightarrow 9 \div (3) \cdot 16 - 2$

$3 \cdot 16 - 2$

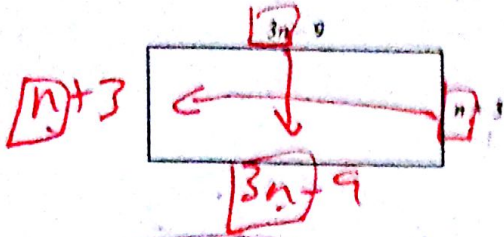
$48 - 2$

$46$

Name: \_\_\_\_\_

ID: A

16. Express the perimeter of the following rectangle in terms of  $n$ .



a.  $8n - 12$

b.  $4n - 6$

$8n - 18 + 6$   
 $8n - 12$

c.  $8n - 6$

d.  $4n - 12$