Ready EOG Practice 6.EE.4 (Combining Like Terms in Expressions)

Rockingham County   **2013 - 2014**

1. What is another way to say this expression? $2 + x + x + x$

A. $2 + x$

B. $2 + 3x$

C. $5x$

D. $2 + x^3$

2. What is another way to say this expression? $3 + 4 \times a$

A. $3 + 4a$

B. $7a$

C. $3 \times (4 + a)$

D. $7 \times a$

3. The expression is not simplified.

$$6x + 4y - 2x + 2y$$

Which choice represents the simplified form of this expression?

A. $4x + 6y$

B. $8x + 6y$

C. $4x + 2y$

D. $6xy$

4. What is the simplified form of this expression?

$$2yz - 5(3yz - 2) + 16yz \div 2^2$$

A. $10 - 9yz$

B. $-2 - 9yz$

C. $-10 - 9yz$

D. yz

5. The expression in the box is not in simplified form.

$$5x + 2y - 3x + y$$

Which choice is the simplified form of the expression?

A. $2x + 3y$

B. $8x + 3y$

C. $5xy$

D. $11xy$

6. The expression in the box is not in simplified form.

$$4q + 2(3q - 1) - 8q \div 2^2$$

What is the simplified form of the expression shown in the box?

A. $-6q - 2$

B. $-6q - 1$

C. $8q - 1$

D. $8q - 2$

7. Simplify: $9x - 6(3 - 2x) + 3$

A. $-3x - 15$

B. $-3x + 21$

C. $21x - 15$

D. $-21x + 21$

8. What is the simplified form of the expression, $3(m + 2n) + 4(2m + 2)$?

A. $11m + 6n + 8$

B. $11m + 2n + 8$

C. $11m + 14n$

D. $11m + 10n$

9. An expression is written in the box.

$$(4p + q + 2) + (3p - 7q - 6)$$

What is the expression written in simplest form?

A. $7p - 6q - 4$

B. $7p + 8q + 8$

C. $p - 6q - 8$

D. $p - 8q + 4$

10. Which expression is equivalent to $8b + 3a + 12b - 9a$?

A. $14ab$

B. $20b - 6a$

C. $11b - 2a$

D. $12ab$

11. Three expressions are written in the box.

1st : x plus x plus x

2nd : x times x times x

3rd :   3 times x

Which statement about the expressions is true?

A. All of the expressions are equivalent to $3x$.

B. All of the expressions are equivalent to x^3.

C. The 2nd expression is equivalent to x^3. The others are equivalent to $3x$.

D. The 1st expression is equivalent to $3x$. The others are equivalent to x^3.

12. Which expression is eqivalent to $4(m + 2)$?

A. $4m + 2$

B. $3m + 6 + 2 + m$

C. $4 + 2m$

D. $4m + 6$

13. Which terms can be combined?

A. $3x + 3$

B. $3x + x^3$

C. $3x + 2x$

D. $3x + 2$

14. Four expressions are written in the box.

Expression 1:	$-12n + 4$
Expression 2:	$-4(3n + 4)$
Expression 3:	$4(-3n + 1)$
Expression 4:	$-2(6n - 2)$

Which expressions are equivalent?

A. only 1 and 2

B. only 1 and 3

C. 1, 2, and 3

D. 1, 3, and 4

15. Four pairs of expressions are written in the box.

1st pair:
$7n - 5$ and $n^3 + n^4 - 5$

2nd pair:
$7n - 5$ and $7(n - 5)$

3rd pair:
$7n - 5$ and $n + 8 + 6n - 13$

4th pair:
$7n - 5$ and $3n + 10 + 4n - 5$

Which pair shows equivalent expressions?

A. 1st pair

B. 2nd pair

C. 3rd pair

D. 4th pair

#	Answer	Objective	#	Answer	Objective
1.	B	Obj : 6.EE.4. Identify when two expressions are equiv...	8.	A	Obj : 6.EE.4. Identify when two expressions are equiv...
2.	A	Obj : 6.EE.4. Identify when two expressions are equiv...	9.	A	Obj : 6.EE.4. Identify when two expressions are equiv...
3.	A	Obj : 6.EE.4. Identify when two expressions are equiv...	10.	B	Obj : 6.EE.4. Identify when two expressions are equiv...
4.	A	Obj : 6.EE.4. Identify when two expressions are equiv...	11.	C	Obj : 6.EE.4. Identify when two expressions are equiv...
5.	A	Obj : 6.EE.4. Identify when two expressions are equiv...	12.	B	Obj : 6.EE.4. Identify when two expressions are equiv...
6.	D	Obj : 6.EE.4. Identify when two expressions are equiv...	13.	C	Obj : 6.EE.4. Identify when two expressions are equiv...
7.	C	Obj : 6.EE.3. Apply the properties of operations to g...	14.	D	Obj : 6.EE.4. Identify when two expressions are equiv...
		Obj : 6.EE.4. Identify when two expressions are equiv...	15.	C	Obj : 6.EE.4. Identify when two expressions are equiv...

Objectives Measured:	Items	Questions measuring this objective
Obj : 6.EE.3. Apply the properties of operations to g...	1	7
Obj : 6.EE.4. Identify when two expressions are equiv...	15	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15

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#	Key	Item ID
1.	B	MC 33617
2.	A	MC 33618
3.	A	MC 43669
4.	A	MC 43670
5.	A	MC 43996
6.	D	MC 43997
7.	C	MC 38113

#	Key	Item ID
8.	A	MC 43800
9.	A	MC 44556
10.	B	MC 122915
11.	C	MC 123029
12.	B	MC 126515
13.	C	MC 140095
14.	D	MC 140122
15.	C	MC 140161