Name:	Date:
Ms. Napolitano	6.EE.3

Day 7 Equivalent Expressions Combining Like terms

<u>Classwork</u>

Identifying Parts of an Expression

Term - The parts of the expression that are separated by + or - sign.

Example: $3x^2 + 6x + 14 - 2x$; This expression has 4 terms.

Constant - A number without the variable.

Example: 9, 100, 1, 6, 5, 0, etc.

Like Terms - Terms with the same variable(s) raised to the same power(s).

Example: 6x and x are like terms.

14 and 2 are like terms.

3xy and 4xy are like terms.

9x2 and 16x2 are like terms.

Coefficient - Numbers that are multiplied by at least one variable.

Example: For the expression 3x + 6; 3 is the coefficient.

Like Terms have the SAME VARIABLE with the SAME EXPONENT!

Check for Understanding

Combining like terms:

•	Like terms have the	Variable and same	•
•	If you have like terms then you their	them by	or
•	When you Combine like terms, same.	the and	stay the

x + 3x	2y + 6y	6b – 5b	$7c^2 + 9 - c^2$
$7g + 4g^2 - 5g$	$x + x + x + x^2$	K + 6 + 2k	$2p + 9p^2 + 3p$
b + bn + 6b + 12bn	$p + 2p + 3p + p^2$	5x + 10 - 2x	7 + 10m + 20
6 + X - 4 + 7X	8xy + 7x - 5 + 8x	7p + 8 - 4 - 6p	

±,	below. x + 12x - 7x	operations to select an expression equivalent to the expressions		
a)	13x – 7			
•	x + 19			
•	5x			
d)	6x			
Answ	er:			
21	What is the equivalent e	xpression to 10k + 13k ² + 10k ² ?		
۷,	vinat is the equivalent e	Apression to loc 1 loc 1		
a)	33K ⁵			
b)	33k ²			
•	10k + 23k ⁴			
d)	$10k + 23k^2$			
	Angurore			
	Answer:			
3)		e class to create an equivalent expression for $2x + 3 + 4 + 5x$. Four of		
	her scholars wrote differ	rent expressions.		
	Jessica wrote 3x + 7			
	Jaevion wrote 14x			
	Eniole wrote $7 + 7x$ Torren wrote $7x^2 + 7$			
	Torren wrote /x² + /			
Which scholar was correct?				
a)	Jessica	c) Jaevion		
	Eniole	d) Torren		
	Answer:			

Independent Practice _Combining Like Terms

6.EE.3

5. How many coefficients are in the expression: $6n + 7n^2 + 3n - 4 + n$?	1. How many terms are in the expression: $6n + 7n^2 + 3n - 4 + n$?
a) 3b) 6c) 5	a) 5 b) 2 c) 6
d) 4	d) 4
Answer:	Answer:
2. Which lists all of the constants in the expression? 1 + h + 12 + 6a +20h - 5	3. Which expression contains like terms?
a) h, 6a, 20h b) h and 12 c) 1, -5, 12	a) $b + y + x$ b) $x^3 + 7y + 3x^4$ c) $13x + 4x^2$ d) $y^3 + 6 + 10y^3$
d) 1, 6a, -5 Answer:	Answer:

For # 5 - 14, simplify the expressions by combining like terms.

4.
$$7x + 6y + 4 + x$$

5.
$$6x^2 + 12 - 5$$

a)
$$6x + 6y + 4$$

a)
$$6x + 6$$

b)
$$8x + 6y + 4$$

b)
$$6x^2 + 7$$

c)
$$14x + 4$$

c)
$$6x^2 + 17$$

d)
$$6x^2 - 7$$

Answer:

Answer:

6.
$$11 + n^4 + 9n + 2n^2 + 7n$$

7.
$$8s + 15 - 7 + 8s + t$$

a)
$$19n^4 + 11$$

b)
$$2n^2 + 17n + 11$$

c)
$$n^4 + 2n^2 + 16n + 11$$

c)
$$t + 8$$

d)
$$1n^4 + 2n^2 + 17n + 11$$

Answer:

Answer:

8.
$$2w + 18 - 6 + 17w$$

9.
$$17b^2 + 21k + 11b^2 - 8k + 9$$

a)
$$29b^2 + 14k + 9$$

b)
$$28b^2 + 29k + 9$$

c)
$$29b^2 + 15k + 9$$

d)
$$28b^2 + 13k + 9$$

Answer:

Answer: