

Warm-up:

Simplify each expression.

$(r^4)^4$
r¹⁶

$(-3j^3k^7)^3$
-27j⁹k²¹

Algebra 1

Unit 4, Day 3

Multiplying Monomials

HW: Study for Quiz!!!

7) $(g^7)^9$
 g^{56}

8) $(-5d)^3$
 $-125d^3$

9) $(12f)^2$
 $144f^2$

10) $(7def^2)^2$
 $49d^2e^2f^4$

11) $(3a^2b)^4$
 $81a^8b^4$

12) $(-4abc^5)^2$
 $16a^2b^2c^{10}$

13) $(3x^2y^2)^2$
 $9x^4y^4$

14) $(0.4s^2)^3$
 $.064s^6$

15) $(-\frac{1}{16}v)^4$
 $\frac{1}{16}v^4$

Simplifying Expressions

Simplify each expression.

$(3x^2y^3)(x^2)^3$
 $(3x^2y^3)(x^6)$
 $3x^8y^3$

$(-3a^3b^6)^3(-2b^2)^3$
 $(-27a^9b^{18})(-8b^6)$
 $216a^9b^{24}$

$(3cd)^2(-2d^2)(4c^4)$
 $(9c^2d^2)(-2d^2)(4c^4)$
 $-72c^6d^4$

Simplifying Expressions

Simplify each expression.

$$(-9a^3b^3)^2(2b^2) \quad (-2x^2y^3)^4(2x^4)^2$$

$$(4m^4n^2)(-3m^2n)(m^4n)^3$$

Connect Four Monomials

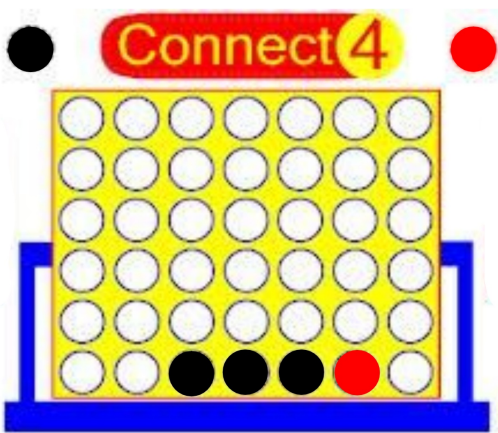
- I will divide the class into two teams (red and black). Then I will ask a person from the red team to pick a number. Once picked, everyone must answer the question during the allotted time amount. Comparing answers is allowed as long as it's not copying...but explaining!
- Next, I will randomly pick a person from the red team to come to the board and answer the question.

Note: If this person is not ready to go to the board, then the black team has the chance to go to the board. And the black team is allowed the next turn as well!

- If red team player goes to the board and writes the correct answer, then he/she is allowed to move the checker anywhere on the board. If the red team does not get the correct answer, the black team is allowed one chance to answer from randomly selected student.

Now it's the black teams turn!

Connect Four Monomials



$(5a^2b^3c^6)(-2ab^2c)$	2	3
4	$(5x^2)(25x^3)$	6
$(-2hk)^4(4h^3k^5)^2$	8	9
10	11	12
13	14	15
16	17	18
19	20	$(\frac{2}{3}h^3)^4$
22	23	24
25	26	27
28	29	30

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