NEW UNIT: U2L1 Forming and Simplifying Expressions

Dec. 5, 2014

December-05-14 12:12 PM

(A) Matching

1) $\frac{v}{2}$ [D] ✓ — A) v
2) $2v - v$ [A] ✓ — B) $v + v$
3) v^2 [E] ✓ — C) $2 + v$
4) $2v$ [B] ✓ — D) $\frac{1}{2}v$
5) $v + 2$ [C] ✓ — E) $v \cdot v$

(B) Vocabulary

$3x + 7$

coefficient, variable, constant

(C) Like vs Unlike Terms

Like terms: ☑ $3x, 4x, -2x, x$
☑ $3n^2, 18n^2, -n^2$
☑ $2a^2b, 4a^2b, -8ba^2$

VS

Unlike terms: ☑ $3x^2, x^3, x^4$
☑ $4a^2b^2, 3ab, -8x$

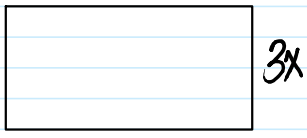
Summary: ALL LIKE TERMS HAVE THE SAME VARIABLES RAISED TO THE SAME EXPONENTS!!!

(D) Collecting Like Terms

A) $2x + 3x = 5x$ ✓
B) $7y - 9y = -2y$ ✓
C) $4x^2 - 9x + 2x^2 = 6x^2 - 9x$ ✓
D) $3x^2 + 2y + 3y = 3x^2 + 5y$ ✓

E) $2x + 9 - 3y + 4x = 6x - 3y + 9$ ✓
F) $2x + 9 - y = 2x - y + 9$ ✓
G) $x^2 + y + x - y = x^2 + x + 0y$
OR $x^2 + x$ ✓

(E) Enrichment



if $x = 2$, $y = 3$

A) What is perimeter?

⇒ add sides

$= 3x + 4y + 3x + 4y$
$= 6x + 8y$ ✓

$= 6(2) + 8(3)$
$= 12 + 24$
$= 36$ ✓

B) What is the area?

⇒ $A = L \times W$

$= (4y)(3x)$
$= 12xy$ ✓

$= 12(2)(3)$
$= 72$ ✓

$(4 \cdot 3)(3 \cdot 2)$

Assignment: U2L1 wkst # 6, 7, 10, 11–14 (A)(C)(E) /15 total