Integer Practice
Warm-Up

1. $-8 + 5$ _____ -3
2. $12 - 13$ _____ -1
3. $-4 + (-4)$ _____ -8
4. $-3 - 7$ _____ -10
5. $12 + 6$ _____ 18
6. $-9 - (-8)$ _____ -1
7. $5 + (-16)$ _____ -11
8. $-8 - 9$ _____ -17
9. $13 - 21$ _____ -8

Determine whether the terms are LIKE or UNLIKE terms.
Drag the correct word over the terms.

$-4x$ and $-10x$	$13xy$ and $5y$	$5x^2$ and $9x$
$9x^2y$ and $4x^2y$	$3xy^2$ and $7x^2y$	$17ab$ and $-21ab$

LIKE UNLIKE

Complete the following problems.

The expressions on the right have had their like terms combined. Match each expression on the left with an expression on the right. When done move the red check inside the green box to reveal the answers.

1. ☐ $8x - 3x$
2. ☐ $3x + 9y - 5x$
3. ☐ $-4x - 5x - 7xy$
4. ☐ $6xy + 4yz - 3xy + yz$
5. ☐ $7x^2y - 2x^2y + 5xy^2 - 3xy^2$
6. ☐ $-4x - 7xy + 8y$
7. ☐ $8x + 9y - 5x$

a. $5x^2y + 2xy^2$ ✓

b. $5x$

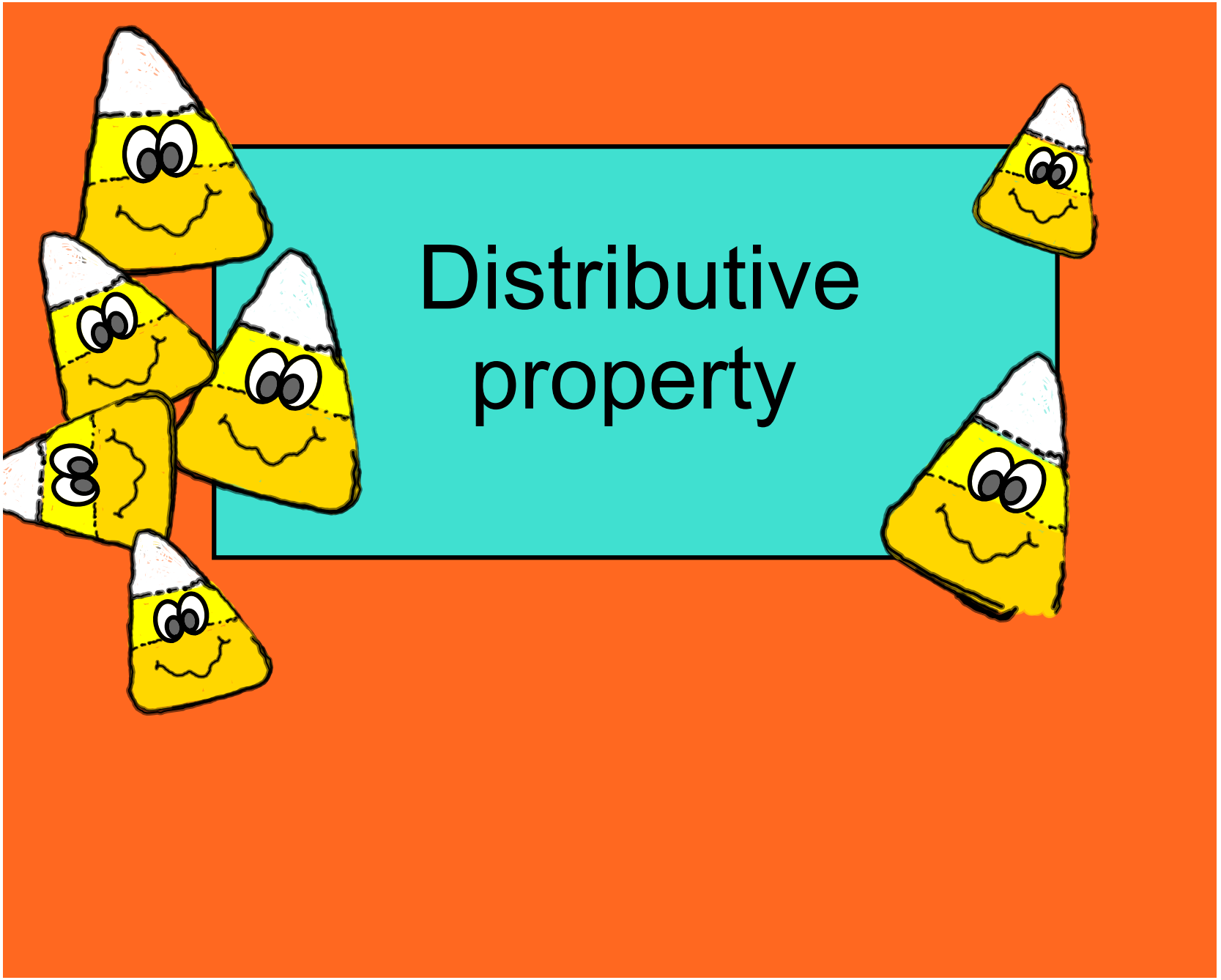
c. $3x + 9y$

d. $3xy + 5yz$

e. $-2x + 9y$

f. $-4x - 7xy + 8y$

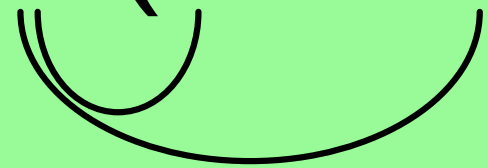
g. $-9x - 7xy$


Distributive
property

Distribute in math means to give to each number

$$8\,(5 + 3)$$

$$8\,(5 + 3) = 8(5) + 8(3)$$



Rewrite each using the distributive property:

a) $2(6+4) =$

b) $3(4x+2x)$

c) $(7x+3)4$

d) $(8x+1)3x$

e) $7\,(x + c)$

f) $y\,(4 + 2)$

g) $x\,(2x + 3)$

h) $2(x-3) =$

i) $y(2 - y^3) =$

j) $3x(-2x - 4) =$

With negatives…. follow the integer rules!

k) $-2\,(2 + 3)$

l) $-4\,(3x + 4)$

m) $-3x(-4 + 2)$

n) $3x(-5x - 4y)$

o) $-2x^2\,(-2x - (-3))$

p) $4x\,(9y - (-8))$

The commutative and distributive properties

1. $3(x + 3) + 7x$
2.
3.
4.
5.

Apply the distributive property to simplify like terms

$5(4 + x) - 2x$

$3(x + 2y) - 6y - 3x$

HINT

HINT

$8y - 4y + 4(y - 2)$

$9x - 4(x + 2)$

HINT