DAY 5

Warm Up
Review
Homework
Cornell Notes
Distribution
Word Problems
Practice
Handout
Exit Ticket

Quiz Thursday!

Warm Up

Simplify each expression by Combining Like Terms.

$3a + 5a$

$4a - 5a + 6a$

$6b - 5 - 7b$

$-2b - 8 - b + 9$

DAY 5 (H)

AGENDA

- Welcome
- Warm-Up
- Cornell Notes: Distributive Property

Warm-Up

Evaluate the expression.

1. $9y - 4y,\ y = \frac{1}{5}$

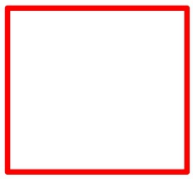
2. $\frac{2k^2 - 3k^2 + 4}{k},\ k = 2$

Simplify each expression by combining like terms.

3. $a^2 + 2b + 3a^2 - c + b$

4. $16m^2 + 8n^2 - 17m^2 + 5n - 3$

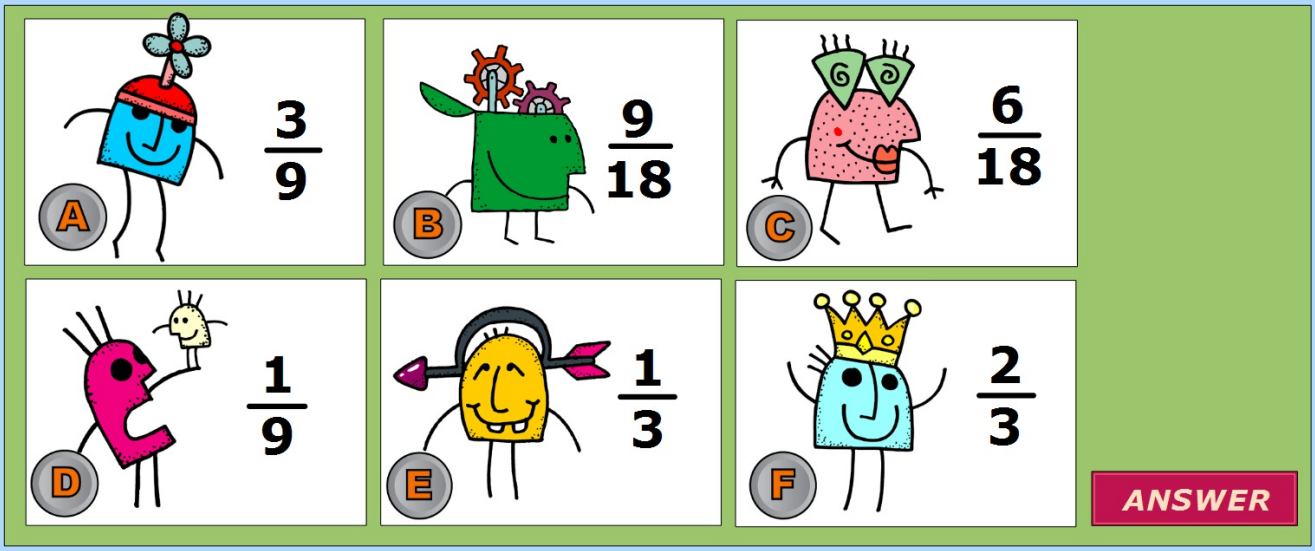
5. Write an expression for the perimeter of the square.

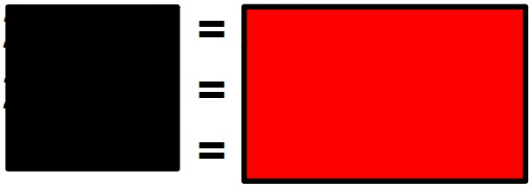
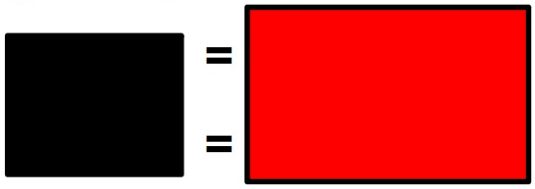


Flashback!

Which three options represent equivalent fractions?

Response category: *Enhanced multiple choice*



	DISTRIBUTIVE PROPERTY
Definition	Distributive Property If I multiply a number by a sum, it is the same as multiplying that number by each number in the sum and adding their products together. Example: 2(4 + 6)  Example: 2(x + 6) 

Think: Can we ADD a variable and constant?

Additional Examples

DISTRIBUTIVE PROPERTY

Example: $2(3 - p)$

$2(3 - p) = 2(3) - 2(p)$

$2(3 - p) = 6 - 2p$

Example: $x(y + 2y)$

$x(y + 2y) = x(y) + x(2y)$

$x(y + 2y) = xy + 2xy$

$x(y + 2y) = 3xy$

SIDE NOTE:

$2(3 - p)$
is the same as
$(3 - p) \bullet 2$
or
$(3 - p)2$

Example: $3a - 2(3 + a)$

Same-Change-Change
for
SUBTRACTION

$3a + {}^{-}2(3 + a) = 3a + {}^{-}2(3) + {}^{-}2(a)$

$= \boxed{3a} + {}^{-}6 + \boxed{{}^{-}2a}$

$=$

Your turn...

$2(4 + 9w)$

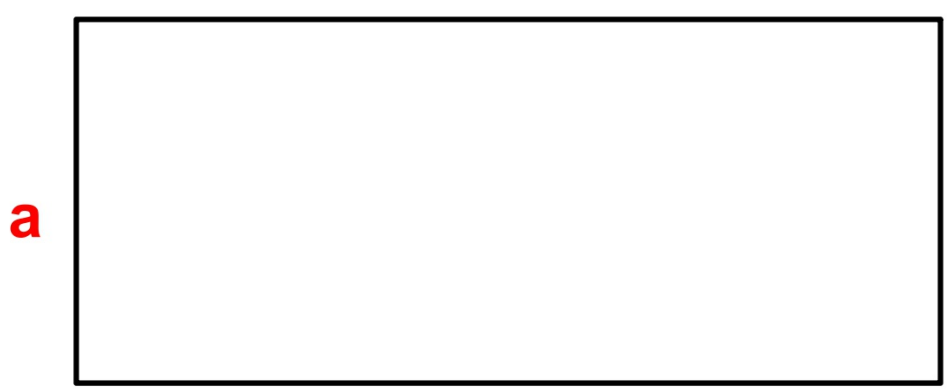
$-4(-4d - 5)$

$2(3v - 8)$

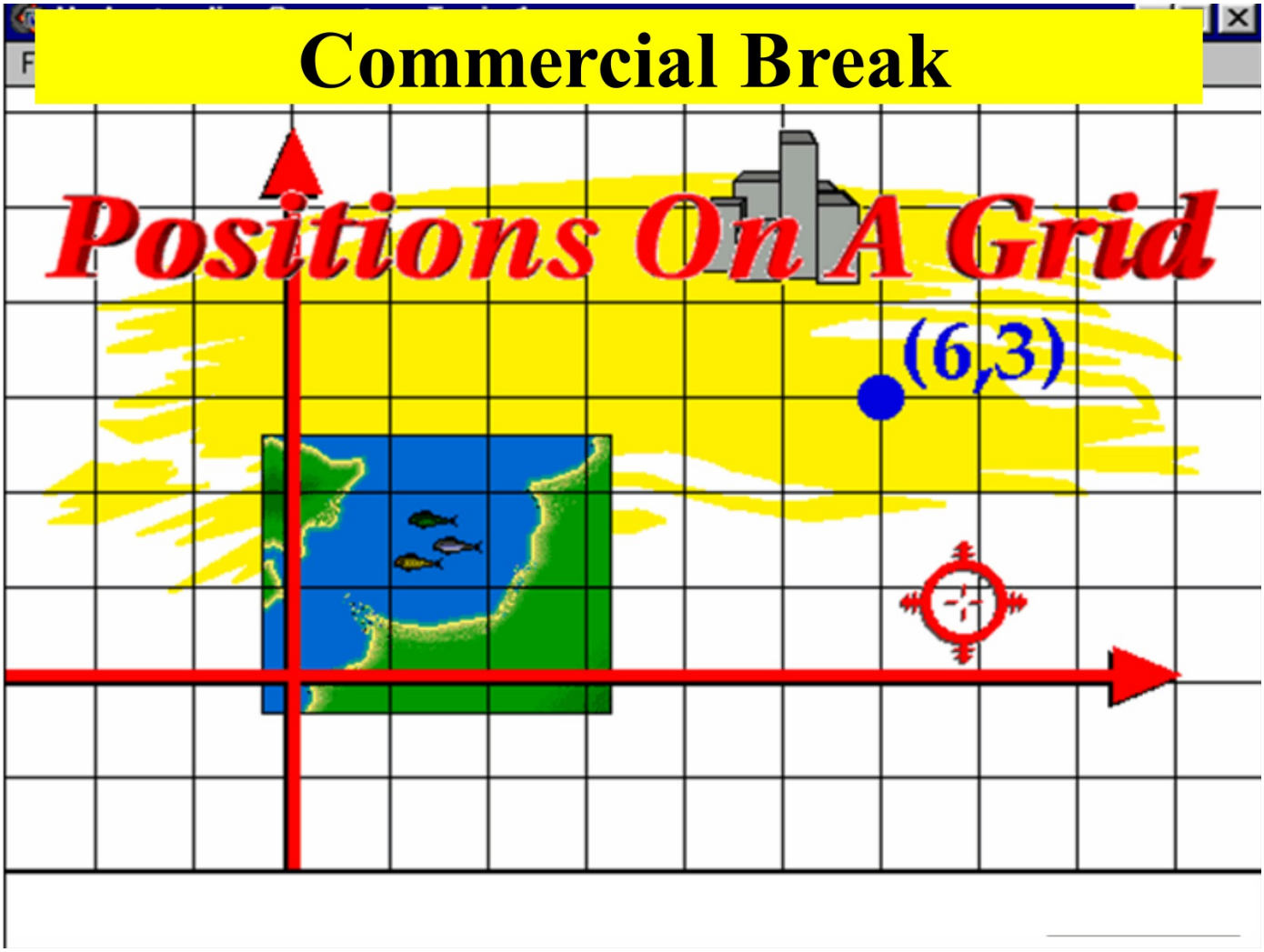
$4(-6z + 4)$

How is this related to our topic today?

Find the area...



Commercial Break



ordinate
ne

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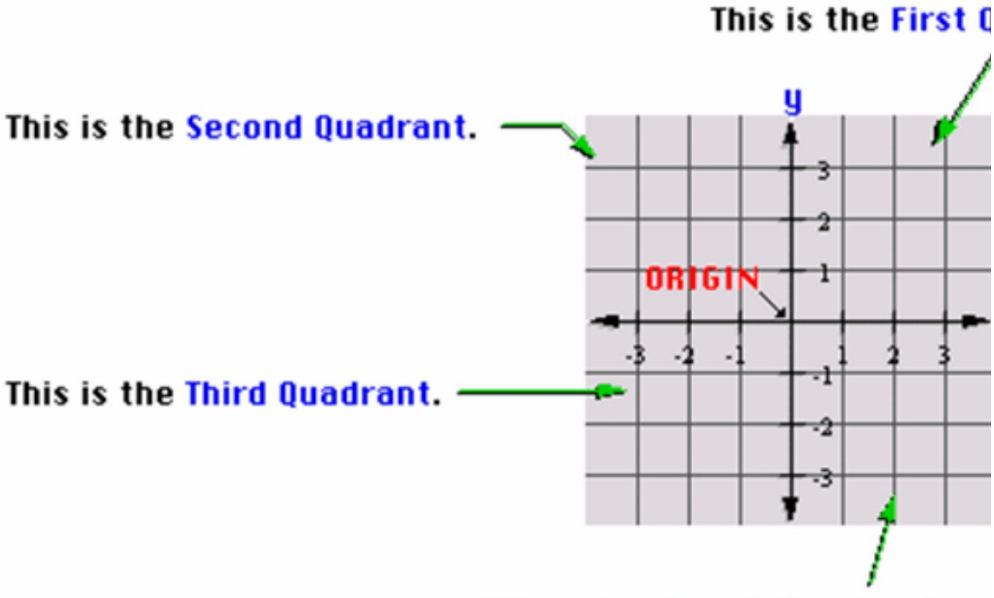
LEQ: How can we graph points on a Coordina Plane?

Ordered Pairs: Quadrants and Cartesian Plane

A grid can be used to locate and describe precise positions



ordinate
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LEQ: How can we graph points on a Coordina Plane?

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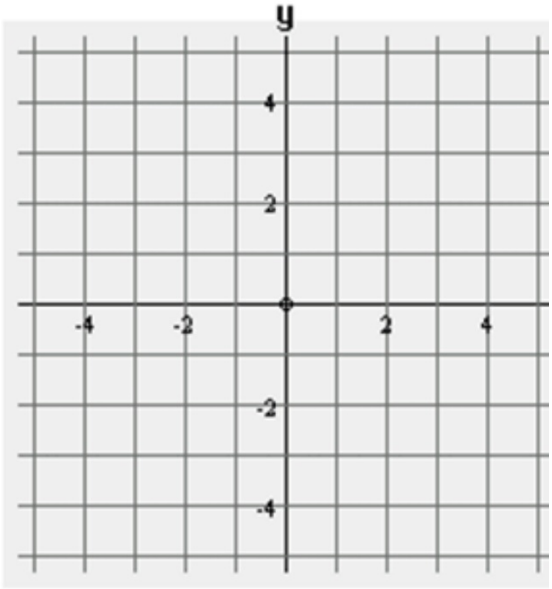
Ordered Pairs: Finding a Point

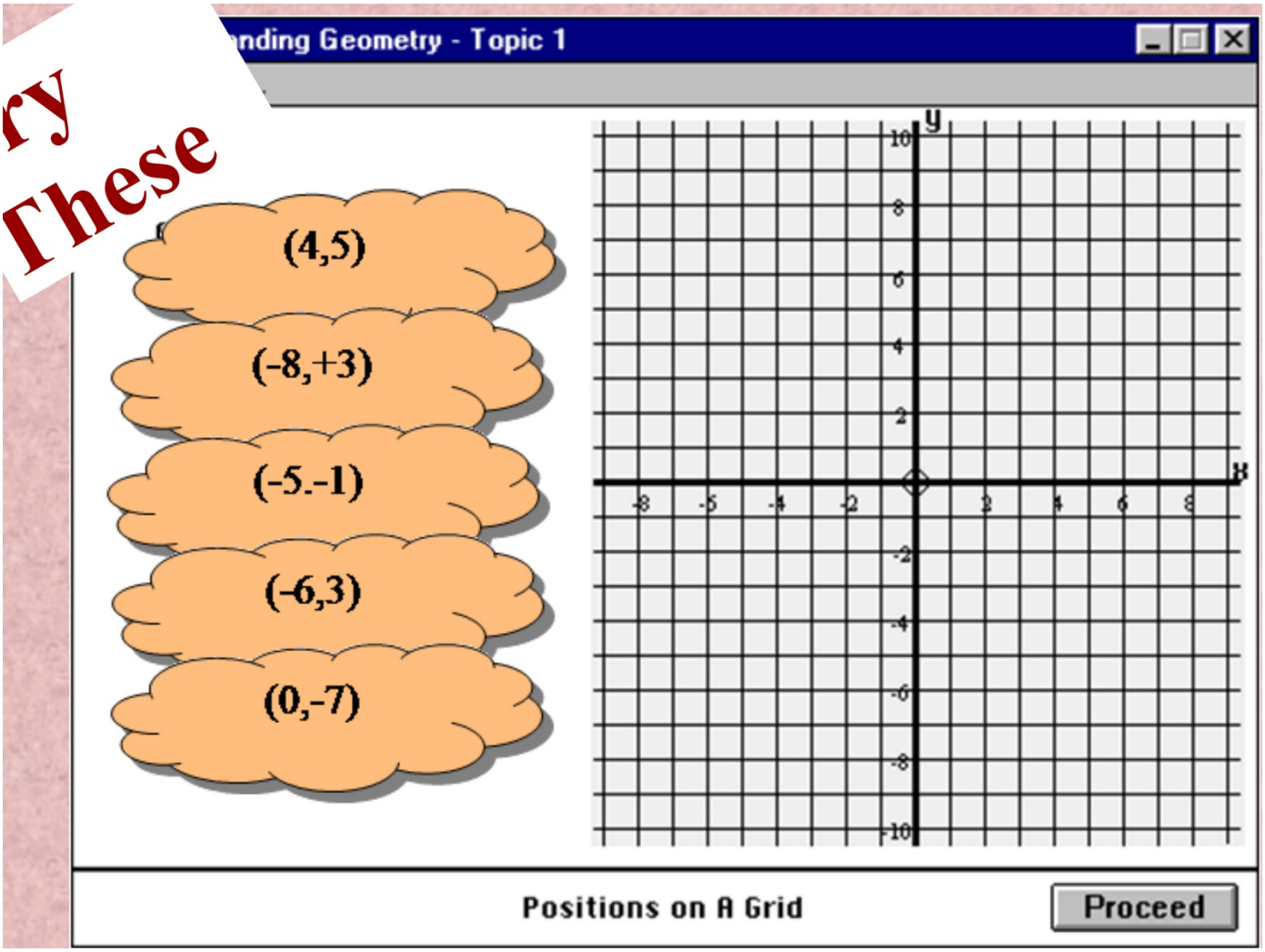
(3,5)

(4,-2)

(-1,-3)

(-2,1)




ry
These
nding Geometry - Topic 1
(4,5)
(-8,+3)
(-5.-1)
(-6,3)
(0,-7)
y
x
Positions on A Grid
Proceed

WORD PROBLEM PRACTICE

Sophie caught twice as many fish as her dad. If her dad caught F fish, how many did Sophie catch?

Which is the equivalent od the following 7(5n + 1)?

A 36n
B 42n
C 35n + 1
D 35n + 7

Which of the following is equivalent to 3(8x + 2)?
A 26x
B 30x
C 24x + 2
D 24x + 6

Erica volunteered to go to yhe board to show how to correctly add (x - 1) and 3(x + 2). What should Erica's answer be?

Simplify.

5b - 2(7 - b)

What is the simplified form of
4(2x - 5y) - 3x?

Copy the given expression and chart. Choose the correct answer. in complete sentences explain why your selection is correct and why each of the others are not.

$$4(2x + 10y)$$

$8(x + 5y)$	$8x + 10y$
$8(x + 10y)$	$8x + 14y$

EXIT TICKET

Simplify each expression by using the Distributive Property.

2(a + b)

2(a + b) + 7

3(x + 5)

3(x - 5)

me _____ **BLOCK** ____

plify by distributing and collecting like terms. Show your work. The 1st one is done for you

3(4x + 6) + 7x =
12x + 18 + 7x = 19x + 18

7(2 + 3x) + 8 =

9 + 5(4x + 4) =

12 + 3(x + 8) =

3(7x + 2) + 8x =

7. 6m + 3(2m + 5) + 7 =

8. 5(m + 9) - 4 + 8m =

9. 3m + 2(5 + m) + 5m =

10. 6m + 14 + 3(3m + 7) =

11. 4(2m + 6) + 3(3 + 5m) =

allenge Problem
3(4x²y³ + 2x²) + 4(2x² + 3x²y³) =

Challenge Problem
12. 2(1x³y + 5x² + 3xy) + 3(4xy + 2x² + 5x³y) =