Cente	er #1 – Evalua	ate the expressio	n when $x = 20$	and $y = 4$	
1.	$x \div 5$	2.	xy - 8y	3.	$x^2 - y^3$

4. In a video game, you score p game points and b triple bonus points. An expression for your score is p + 3b. What is your score when you earn 245 game points and 20 triple bonus points?

Center #2 - Write the phrase as an expression. Then evaluate when a = 5 and b = 8. 1. The sum of 7 and the product of a number *a* and 12

2. *b* fewer than the number 11

3. The product of 4 and the difference of 9 and the number a.

4. A number 17 decreased by b

5. Your basketball team scored 4 fewer than twice as many points as the other team. Write an expression using the variable p for points. How many points did your team score if the other team scored 24 points?

Center #3 – Simplify and state t 1. $10 + (2 + y)$	 (21 + b) +1	3.	3(7x) + 0

4. 5.3 (w + 1.2) 5. 36 • r • 1 6. 7 + 3x + 4

Center #4 – Simplify the expression.

1. 5(a-3) + 4a 2. 3(x + 4y) + 2x - 7y 3. 24 + 2(m - 7)

Center #5 – Identify the terms, coefficients, and constants.1.5m + 32.3a + b3.Terms:Terms:

3.
$$4x^2 + 8y + 3$$

Terms:

Coefficients:

Coefficients:

Coefficients:

Constants:

Constants:

Constants:

Center #6

Tickets to the play cost \$8 for adults and \$5 for kids. Write an expression for the total cost of x adults and y kids tickets. Then use the expression to find the total cost if 12 adults and 7 kids attend the play.

Each side of a triangle has a length of 24y centimeters. Draw what this looks like then write an expression for the perimeter of the triangle (in centimeters).

Center #1 - Evaluate the expression when x = 20 and y = 4

1. $x \div 5$ 2. xy - 8y3. $x^2 - y^3$ 20:5=4 20.4-8.4 202-43 80-32=48 400-64=336

4. In a video game, you score p game points and b triple bonus points. An expression for your score is p + 3b. What is your score when you earn 245 game points and 20 triple bonus points? 245 + 3(20)

245 + 60 = 305 points

Center #2 - Write the phrase as an expression. Then evaluate when a = 5 and b = 8. 1. The sum of 7 and the product of a number *a* and 12

7+12a > 7+12.5 7+60=67

2. b fewer than the number 11

11-6-> 11-8=3

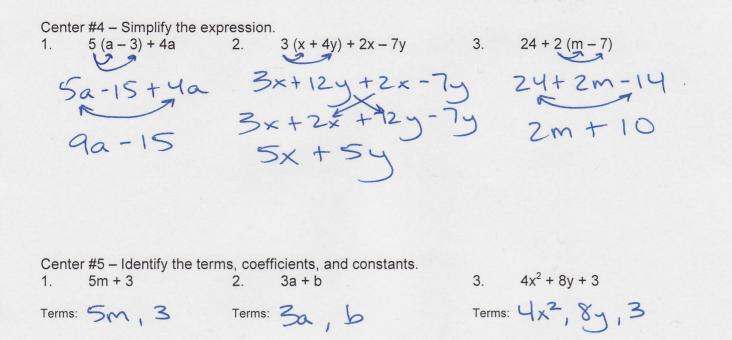
3. The product of 4 and the difference of 9 and the number a. $4(9-a) \rightarrow 4(9-5)$

17-6-2 17-8=9

4(4) = 16 4. A number 17 decreased by b

5. Your basketball team scored 4 fewer than twice as many points as the other team. Write an expression using the variable p for points. How many points did your team score if the other team scored 24 points?

2p-4 -> 2(24)-4 Center #3 - Simplify and state the property you used for each step. 1. 10 + (2 + y) (10 + 2) + y 12 + y 2. (21 + b) +1 12 + y 2. (21 + b) +1 b + 21 + 1 commutative b + 22 + 1 b + 22 4. 5.3 (w + 1.2) 2. (21 + b) +1 b + 22 2. (21 + b) +1 b + 22 (2. (21 + b) +1 (2. (2. + b) +1 (3. (3. + 0) (3. -7) × associative (3. -7) × associative 5.3 (w+1.2) 5. 36 · r · 1 6. 7 + 3x + 4 5.3 w + 6.36 distributive 36 · I · r commutative 7+4+3x commutative 36 r mult. property of one 11+3x 4. 5.3 (w + 1.2) identity property



Center #6

Coefficients: 5

Constants: 2

Tickets to the play cost \$8 for adults and \$5 for kids. Write an expression for the total cost of x adults and y kids tickets. Then use the expression to find the total cost if 12 adults and 7 kids attend the play.

Constants: none

Coefficients: 3, 1

8x+5y 8.12+5.7 96+35=\$131

24y+24y+24y 72ycm.

Coefficients: 4,8

Constants: 3

Each side of a triangle has a length of 24y centimeters. Draw what this looks like then write an expression for the perimeter of the triangle (in centimeters).