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

- 1. $x \div 5$
- $2. \qquad xy 8y$
- 3. $x^2 y^3$

Factor the expression using the GCF.

4. 3x + 12

- 5.
- 18m 30

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 the property you used for each step.

- 10 + (2 + y)1.
- 2. (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.

- 5a 15 + 4a
- 2.
- 3(x + 4y) + 2x 7y 3. 24 + (m 7)

Center #5 – Identify the terms, coefficients, and constants.

- 5m + 31.
- 3a + b2.

 $4x^2 + 8y + 3$

Terms:

Terms:

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.
$$xy - 8y$$
 3. $x^2 - y^3$

3.
$$x^2 - y^3$$

 $20^2 - 4^3$
 $400 - 64 = 336$

Factor the expression using the GCF.

4.
$$3x+12$$

5.
$$18m - 30$$

$$3.x + 3.4$$

 $3(x+4)$

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.

$$4(9-a)$$
 $4(9-5)$ $4(4) = 16$

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?

Center #3 – Simplify and state the property you used for each step.

1.
$$10 + (2 + y)$$
 2. $(21 + b) + 1$ $(10 + 2) + y$ assoc. $b + (21 + 1)$ assoc. $b + 22$

6.
$$7 + 3x + 4$$

identity property

Center #4 - Simplify the expression.

$$3(x + 4y) + 2x - 7y$$
 3. $24 + (m - 7)$

3x+12y+2x-7y 24+m-7 24-7+m

3.
$$24 + (m - 7)$$

Center #5 – Identify the terms, coefficients, and constants.

2. 3a + b

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

Terms: 3a, b

Coefficients: 3

Coefficients: 4 8

Constants: Oscillation

Constants: 3

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.

8x+\$5y

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).

24y + 24y + 24y 72y cm.