Center #1 – Evaluate the expression 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 the property you used for each step. 1. 10 + (2 + y) 2. (21 + b) + 1 3. 3(7x)

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.	$1\frac{3}{4}+\frac{1}{3}\left(z+\frac{7}{8}\right)$
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Center #5 - Factor the expression using the GCF. 1. 15 + 35 2. 36x - 28 3.

16m + 56n

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).

Math 6 Acc CN3 PI46 # 1-22 all

Center #1 – Evaluate the expression when x = 20 and y = 4 1. $x \div 5$ 2. xy - 8y 3. $x^2 - y^3$ 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

> 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 $7 + 12a \rightarrow 7 + 12 \cdot 5$ 7 + 60 = 67

2. b fewer than the number 11 $||-b \rightarrow ||-8 = 3$

bonus points?

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

4. A number 17 decreased by b $17 - b \rightarrow 17 - 8 = 9$

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) - 448 - 4 = 44 points

Center #3 - Simplify and state the property you used for each step. 1. 10 + (2 + y) 2. (21 + b) +1 3. (3(7x)) (10+2)+y associative b+21+1 commutative (3.7) × associative 12+y b+22 21 × 4. 5.3 (w+1.2) 5. 36 • r • 1 6. 7 + 3x + 4 5. 36 • r • 1 36 • 1 • r commutative 7+4 + 3x commutative 36 • 1 • r commutative 7+4 + 3x commutative 36 • 1 • r commutative 11+3x Multiplication property 11+3x Center #4 - Simplify the expression.

1. 5(a-3)+4a 5a-15+4a 9a-152. 3(x+4y)+2x-7y 3x+12y+2x-7y 5x+5y $[\frac{3}{4}+\frac{1}{3}(z+\frac{7}{8})]$ $[\frac{3}{4}+\frac{1}{3}z+\frac{7}{24}]$ $[\frac{18}{24}+\frac{7}{24}+\frac{1}{3}z]$ $[\frac{18}{24}+\frac{7}{24}+\frac{1}{3}z]$ $[\frac{25}{24}+\frac{1}{3}z]$

Center #5 – Factor the expression using the GCF.

1. 15 + 352	2. 36x – 28	3. 16m + 56n
5.3+5.7	4.9x - 4.7	8.2m+8.7n
5(3+7)	4(9x-7)	8(2m+7n)
		0(

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 $8 \cdot 12 + 5 \cdot 7$ 96 + 35 = 431

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).

249+249+24 724 cm.