Name: KEY

Period:

PreAlgebra Quiz Review:

Construct "The Story of *x*" and Evaluating Expressions

1. What is the solution to a multiplication problem called? Division? Subtraction? Addition?

Mult → product

Division → Quotient

Subtraction → Difference

Addition → Sum

Directions: Write the expression that fits each description.

2. Subtract 21 from 13

$13 - 21$

3. Subtract 13 from 21

$21 - 13$

4. Divide 6 by 24

$\frac{6}{24}$

5. Divide 24 by 6

$\frac{24}{6}$

Directions: Evaluate the expression and write the equation that models the truth statement. Then construct "The Story of *x*".

6. $-2(3m - 7)$ Truth Statement $m = 4$

$m = 4$	Story of m
Expression $-2(3m-7)$	① Multiply 3 to 4
$-2(3(4)-7)$	② Subtract 7 from the product
$-2(12-7)$	③ Multiply -2 to the difference
$-2(5)$	④ The solution is -10 when m = 4
-10	
Equation $-2(3m-7)=-10$ when $m=4$	

7. $\frac{8-x}{4} + 13$ Truth Statement $x = -8$

$x = -8$	Story of x
$\frac{8-x}{4}+13$	① Subtract -8 from 8
$\frac{8-(-8)}{4}+13$	② Divide 4 from the difference
$\frac{16}{4}+13$	③ Add 13 to the Quotient
$4+13$	④ The solution is 17 when $x=-8$
17	
$\frac{8-x}{4}+13=17$	

Name: Period:

Directions: Evaluate the expression and write the equation that models the truth statement. Then construct "The Story of x".

8. $2(26-2y)+4.6$ Truth Statement $y=4.2$

$y=4.2$	Story of x
$2(26-2y)+4.6$	① Multiply 2 to 4.2
$2(26-2(4.2)+4.6$	② Subtract the
$2(26-8.4)+4.6$	product from 26
$2(17.6)+4.6$	③ Multiply 2 to the
$35.2+4.6$	difference
39.8	④ Add 4.6 to the
	product
$2(26-2y)+4.6=39.8$	⑤ The solution
When $y=4.2$	is 39.8 when $y=4.2$

9. $\frac{1}{4}b-8$ Truth Statement $b=-20$

$b=-20$	Story of x
$\frac{1}{4}b-8$	① Multiply $\frac{1}{4}$ to -20
$\frac{1}{4}(-20)-8$	② Divide -20 by 4
$\frac{-20}{4}-8$	③ Subtract 8
$-5-8$	from -5
-13	④ The solution is
	-13
$\frac{1}{4}b-8=-13$	
when $b=-20$	