Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2nd Quarter Review

You may use your Interactive Notebook (INB) for any of these problems and those on the test. You will also be allowed to use this review on the test.

No calculators on this section:

**Integers (1 point each)**

|  |  |  |  |
| --- | --- | --- | --- |
| -17 + (-15) = | 23- (-33) = | -5(8) = 72 ÷ -9= |  |

**Algebraic Vocabulary (1point each)**

Circle the variables in the following expressions.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 5(d-6) | 8t+4 | 8+6j |  |  |

Label each as an expression or an equation.

$7j-3=45$ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

$7f+27$ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Circle the constants in the following expressions. (If the constant is a coefficient, ignore it.)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 8m+27 | 78r-6 | 56+4p |  |  |
|  |  |  |  |  |

Circle the coefficients in the following expressions.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 8b-3 | 6-2v |  |  |  |

**Simple Equations (1 point for showing your work. 1 point for the correct answer.)**

$s-2=1$ $w+3=-4$ $n-6=-7$

$p÷5=3$ $y÷7=1$ $-8r=64$

**Multi-step equations (2 points for showing your work. 1 point for the correct answer.)**

$13=-2\left(y-4\right)+3y$ $2x\left(5-3\right)-3x=5$

**Variables on Both Sides (3 points for showing your work. 1 point for the correct answer.)**

$-2x=3x+10$ $\frac{1}{2}\left(6h-4\right)=-5h+1$

**Word Problem**

This is worth 10 points. Make a key. Highlight the important information and the question. Write an equation. Solve and label. Show your work on a sheet of graph paper.

Paul bikes for 3 hours to reach his favorite beach. He bikes 2 miles per hour faster on the way back. So, the trip back takes only 2.5 hours. How fast did he bike going to the beach?

Here are 2 equations to help you out.

Distance = (rate)(time) The distances he traveled are the same, so are equal.

$$\frac{rate}{hour}∙time=\frac{new rate}{hour}∙time$$