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

Teacher: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Math 8

Cumulative Review # 1.6

**Show work for all questions for full credit**

**& write your answers on the lines provided!!!**

*(If you feel no work is needed you must explain your reasoning)*

|  |  |
| --- | --- |
| 1. | Which expression is equivalent to x(2 + y)  |
|   | A. | 2x + y  |
|  | B. | 2x + 2y  |
|  | C. | 2xy |
|  | D. | 2x + xy |

 1 .\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |
| --- | --- |
| 2. | Danny purchased a new digital camera for $499 and a printer for $299 including tax. If he plans to pay the total amount in 6 equal monthly payments, what is a reasonable estimate of the amount he will pay each month?  |
|  | A. | $66.50 |
|  | B. | $133.00 |
|  | C. | $155.00 |
|  | D. | $165.00  |

 2 .\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |
| --- | --- |
| 3. | Consider the equation below. How many solutions does the equation have? Explain |

 $\frac{3}{4}\left(24-16x\right)=-\frac{2}{3}\left(18x-27\right)$

3 .\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |
| --- | --- |
| 4. | Solve and Check $$\frac{1}{5}n+3=6$$ |

4 .\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |
| --- | --- |
| 5. | Angela is 23 years old. Her grandfather is 23 times her age. How old is her grandfather?  |
|  |  |

5 .\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_