Unit One: Back to the Basics
Pre-Algebra: Practice Test

Name: $\qquad$
Hour: $\qquad$
1.1 I can identify the commutative, associative, and identity properties.

| Name the property being illustrated below. |  |
| :--- | :--- |
| $1 . w \cdot 1=w$ | $2 .(a+b)+7=7+(a+b)$ |
| $3.8(x y)=(8 x) y$ | $4 . c+0=c$ |
| $5 .(a+3)+b=a+(3+b)$ | $6.5 n * 6=5(6) n$ |


| 1.2: I can write expressions using number, operations and variables. |  |
| :--- | :--- |
| 1. The sum of a number and 9. | 2. The product of a number and 5 is the same <br> as 20. |
| 3. 20 less than some number. | 4. The quotient of 30 and the difference some <br> number and 7 is less than 40. |
| 5. A number is at most 22 | 6.6 times the quantity of some number and 3. |
| 7. The difference of a number and 10. | Score: |


| 1.3: I can round a number to the correct place value and I can add and subtract multi-digit <br> numbers with decimals <br> 1. Round to the nearest hundredth: 8.437 <br>  <br> 3. Round to the nearest tenth: 5.9876 <br>  <br> 5. Add: $43.57+104.6$ <br>  | 2. Round to the nearest tens: 63.992 |
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| 1.4: I can compare and order decimals and I can multiply multi-digit decimals. |  |  |
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| Compare the numbers given using $\langle,>, o r=$. |  |  |
| 1. |  |  |


| 1.5: I can divide multi-digit decimals |  |
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| Show your work. |  |
| 1. Divide: $2.45 \div 3.5$ | 2. Divide: $1.45 \div 0.08$ |
|  |  |
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| 1.6: I can write repeated multiplication using an exponent, I can simplify expressions using the Product and Quotient Power Properties |  |
| :---: | :---: |
| Write repeated multiplication of same factor using an exponent. |  |
| 1. $m * m * m * m * m * m * m * m * m * m=$ | 2. $5 \cdot 5 \cdot 5 \cdot 5 \cdot 5 \cdot 5 \cdot 5=$ |
| Write the exponent as repeated multiplication. |  |
| 3. $n^{3}$ | 4. $3^{5}$ |
| Simplify. |  |
| 5. $g^{6} \cdot g^{5} \cdot g$ | 6. $3 k \cdot 2 k^{4} \cdot k \cdot k^{9}$ |
| 7. $\frac{f^{8}}{f^{5}}$ | 8. $\frac{16 n^{5}}{8 n^{5}}$ |
|  | Score: $\quad$ \% |

## 1.7: I can use Order of Operations to calculate numerical expressions

| 1. $3\left[5+\left(3^{3}-7\right)\right]$ | 2. $\frac{13+11}{14-6-2^{2}}$ |
| :--- | :--- |
| 3. $26-\left(4^{2}-8\right) \div 2$ | $4.16 \div 4-24 \div 12$ |
|  |  |
| $5 . \frac{13+7^{2} \div 7}{9-20 \div 4+16}$ | $6 . \frac{36}{2}+\frac{3 \cdot 21}{11-2}$ |


| 7. $(13-9+2-1)^{2} \div\left(3^{2}-4\right)$ | $8.30+2-24 \div 4+9-3(4)$ |
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|  |  |
|  | Score: |

