Unit One: Back to the Basics

Name:_____

Pre-Algebra: Practice Test

Hour:_____

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. $8(xy) = (8x)y$	4. $c + 0 = c$
5. $(a+3) + b = a + (3+b)$	6. $5n * 6 = 5(6)n$
	Score:%

1.2: I can write expressions using number, oper	ations and variables.
1. The sum of a number and 9.	2. The product of a number and 5 is the same as 20.
3. 20 less than some number.	4. The quotient of 30 and the difference some 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.	8. 16 is greater than or equal to the sum of a number and 34.
9. 8 more than the quotient of 20 and some number.	10. The product of 3 and the quantity of some number minus 15.
	Score:%

1.3: I can round a number to the correct place value and I can add and subtract multi-digit numbers with decimals	
1. Round to the nearest hundredth: 8.437	2. Round to the nearest tens: 63.992
3. Round to the nearest tenth: 5.9876	4. Round to the nearest thousandth: 0.6774
5. Add: 43.57 + 104.6	6. Add: 1392.16 + 16.16
7. Add: 22.63 + 1.694	8. Subtract: 17.6 – 9.3
9. Subtract: 23.96 – 19.931	10. Subtract: 44.44 – 16.1
	Score:%

1.4: I can compare and order decimals and I can multiply multi-digit decimals.	
Compare the numbers given using \langle , \rangle , o $r =$.	
1.	2.
5.6 5.65	4.2344.2340
3. Multiply: 9.6 x 5	4. Multiply: 5.29 x 11.3
5. Multiply: 8.3 x 7.4	6. Multiply: 18.7 x 19
	Score:%

1.5: I can divide multi-digit decimals	
Show your work.	
1. Divide: 2.45 ÷ 3.5	2. Divide: 1.45 ÷ 0.08
3. Divide: 6.7 ÷ 13.4	4. Divide: 11.5 ÷ 0.2
	Score:%

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.	1
3. n ³	4. 3 ⁵
Simplify.	
Simplify. 5. $g^6 \cdot g^5 \cdot g$	6. $3k \cdot 2k^4 \cdot k \cdot k^9$
7. $\frac{f^8}{f^5}$	8. $\frac{16n^5}{8n^5}$
	Score:%

1.7: I can use Order of Operations to calculate numerical expressions1. $3[5 + (3^3 - 7)]$ 2. $\frac{13+11}{14-6-2^2}$	
1. $3[5 + (3^3 - 7)]$	2. $\frac{13+11}{14-6-2^2}$
	11 0 2
3. $26 - (4^2 - 8) \div 2$	4. $16 \div 4 - 24 \div 12$
5. $\frac{13+7^2 \div 7}{9-20 \div 4+16}$	$6. \ \frac{36}{2} + \frac{3 \cdot 21}{11 - 2}$
9-20-4710	
7. $(13 - 9 + 2 - 1)^2 \div (3^2 - 4)$	8. $30 + 2 - 24 \div 4 + 9 - 3(4)$
	Score:%