MATH REVIEW

Fill in the blanks: (2 pts. each)

- 1) A **prime** number is divisible by only two numbers, one and itself.
- 2) The <u>reciprocal</u> of any rational number is a rational number where the numerator and denominator are reversed. The product of the two rational numbers equals 1.
- 3) -7 is an example of a <u>negative</u> number. (alternative: integer)
- 4) A *proportion* is a statement that two ratios are equal.
- 5) A percent changed to a fraction will have a denominator of <u>100</u>.
- Using the numbers "1" through "6" put the following "operations in algebraic problem solving" in the proper order:
 (12 pts.)

2	Evaluate all exponents and roots.	Ε
4	Evaluate all divisions.	D
3	Evaluate all multiplications.	М
1	Evaluate data within parentheses or brackets.	Ρ
6	Evaluate all subtractions.	S
5	Evaluate all additions.	Α

PEMDAS !!!

Quiz #1		MATH REVIEW		Page 2 of 2 (78 of 100 points)	
				KEY	
Perform each of the indicated operations: (5 pts. each)					
7)	$(5/16) \div (1/3) =$	15/16	= 0.9375		
8)	(7/8)(3/16) =	21/128	= 0.1641		
9)	(16/28)(4/2)(1/5) =	8/35	= 0.2286		
10)	(6/18) + (5/9) =	8/9	= 0.8889		
11)	$-7 \div (5/9) =$	-63/5	= -12.6000		
12)	(14/9) + (-3/4) =	29/36	= 0.8056		
13)	(3/7) + (4/-14) - (4/28) =	0			
14)	$\left(\frac{5}{1/3}\right) + (17/4) - (2/5) =$	377/20	= 18.8500		
15)	60% of 95 =	57			
16)	16 is what percent of 128?	12.5%			
17)	Which fraction is the largest 7	$\sqrt{3}$ or 78	/20 ? (circle one)		
18)	The reciprocal of $\left(\frac{7}{-\frac{1}{2}}\right) =$	-1/14			
For the following two questions, $x = \sqrt{4}$, $y = 3$, $z = -2$					

(9 pts. each)

- 19) $\frac{3x}{z} \frac{xy}{4} + \frac{(xz)^2}{1} =$ 23/2 = 11.5000
- **20)** $2x^3 + 6y z^2 x =$ **26**