GRE QUANT PRACTICE PAPER

1. Simplify:

x2y-5x2y2x2y

J	- 5 5
<u>s</u> elect	
1-5x	
<u>s</u> elect	
None	of the other answers
<u>s</u> elect	
y-5y	
<u>s</u> elect	
5+x2y	2
<u>s</u> elect	
1-5v	

2. A function f(x) = -1 for all values of x. Another function g(x) = 3x for all values of x. What is g(f(x)) when x = 4?

select
_3
select
3
select
12
select
-12
select
3. $25x^2 - 36y^2$ can be factored into:
select
cannot be factored
select
(5x+6y)(5x+6y)
select
$\overline{(5x-6y)(5x-6y)}$

<u>s</u>elect

$$(5x-6y)(5x+6y)$$

 $5 * 6 * (x^2 - y^2)$

4. If -1 < w < 1, all of the following must also be greater than -1 and less than 1 EXCEPT for which choice?

<u>s</u> elect			
w ²			
select			
3 <i>w</i> /2			
<u>s</u> elect			
<u>s</u> elect			
w/2			
<u>s</u> elect			
$ W ^{0.5}$			

5. In the equation below, m, p, and k are non-zero numbers. What is the value of m in terms of p and k?

$1m_3 - 1k_2 = 1p$
select
$m = (pk_2p + k_2)_{13}$
select
$m = (p + k_2 2)_3$
select
$m=p_2k_3p+k_2$
select
$m=p_{12}-k_{13}$
select
$m = (p + k_2 p k_2)_{13}$

For the quantities below, x<y and x and y are both integers.

6. Please elect the answer that describes the relationship between the two quantities below: Quantity A

 x^5y^3

Quantity B x^4y^4

<u>s</u>elect

Quantity B is greater.

<u>s</u>elect

Quantity A is greater.

<u>s</u>elect

The relationship cannot be determined from the information provided.

<u>s</u>elect

The quantities are equal.

7. Solve the inequality 6(x-1) < 7(3-x).

<u>s</u> elect	
x<127	7
<u>s</u> elect	
x>132	27
<u>s</u> elect	
x>-1]	117
<u>s</u> elect	
x<271	3
<u>s</u> elect	
x > -12	327

8. h(x)=28x+4

For which of the following values of x is the above function undefined?

<u>s</u> elect	
4	
<u>s</u> elect	
28	
<u>s</u> elect	
None	of the other answers
<u>s</u> elect	
-4	

<u>s</u> elect		
0		

9. If 4xs = v, v = ks, and $sv \neq 0$, which of the following is equal to k?

select
4xv
select
x
select
4x
select
2xv
select
xv
$10. \ 3x^2 - 11x = -10$
Which of the following is a valid value for x?
select
-2
select
5/3
select
3
select
-5/3
select
None of the entheman and an an

None of the other answers

11. Evaluate:

y=	y=313-95(127)-3	
<u>s</u> elect	ct	
24		
<u>s</u> elect	ict	
30		
<u>s</u> elect	ct	
27		

select
81
select
78
12. Solve for X. 2x+1=128
select
6
select
8
select
7
select
5
select
9
13. $0.0075 \cdot 0.0126 = ?$
select
0.000945
select
9.45.10-5
select
9.45.10-6
select
0.945.10-5

14. A five-year bond is opened with \$5000 in it and an interest rate of 2.5%, compounded annually. This account is allowed to compound for five years. Which of the following most closely approximates the total amount in the account after that period of time?

<u>s</u> elect		
\$5518		
<u>s</u> elect		
\$5657		

<u>s</u> elect			
\$5811			
<u>s</u> elect			
\$5625			
<u>s</u> elect			
\$6143			

In a four-digit positive interger y, the thousand's digit is three times the units digit.

15. <u>Quantitiy A</u>	Quantitiy B
Unit's digit of y	4
select	
Quantity B is greater	
select	
The relationship cannot be determined from the information given.	
select	
The two quantities a	re equal.
select	
Quantity A is greater.	