## GRE QUANT PRACTICE PAPER

1. Alice is twice as old as Tom, but four years ago, she was three years older than Tom is now. How old is Tom now?
select
7
select
21
select
9
select

3
select
13
2. Worker $A$ can make a trinket in 4 hours, Worker $B$ can make a trinket in 2 hours. When they work together, how long will it take them to make a trinket?

| select |
| :--- |
| $1 \frac{1}{3}$ hours |
| select |
| $1 \frac{1}{2}$ hours |
| select |
| $\frac{1}{2}$ hour |
| select |
| 6 hours |
| select |

3. An outpost has the supplies to last 2 people for 14 days. How many days will the supplies last for 7 people?
select
10


Find $f(6)$
4. $f(x)=|x 2+4 x-127|$
select
-67
select
36
select
67
select
-36
select
-136
5. $a \ll b=a(b+1)-3$
Quantity A
1 © 1
Quantity B
2250
select
Quantity A and Quantity B are equal

Quantity A is greater

## select

## Quantity B is greater

select
The relationship cannot be determined from the information given.
6. For all values of $x, f(x)=7 x^{2}-3$, and for all values of $y, g(y)=2 y+9$. What is $g(f(x))$ ?

7. A jet goes from City 1 to City 2 at an average speed of 600 miles per hour, and returns along the same path at an average speed if 300 miles per hour. What is the average speed, in miles per hour, for the trip?

| select |
| :---: |
| 500 miles/hour |

select
350miles/hour


450miles/hour
select
300miles/hour
select
400miles/hour
8. What is $f(-3)$ if $f(x)=x^{2}+5$ ?


4

select
14
select
15
select
-14
9. If $f(x)=3 x+7$ and $g(x)=x 2-12$, what is $f(g(x))$ ?

| select |
| :--- |
| $3 \times 3-29$ |

select
$9 \times 3+29$
select
3x2-29
select
$9 \times 2-29$
select
$3 \times 2+29$
10. A function $f(x)=-1$ for all values of $x$. Another function $g(x)=3 x$ for all values of $x$. What is $g(f(x))$ when $x=4$ ?

| select |
| :--- |
| 12 |
| select |
| 3 |

-3
select
-12
select

## 3

| select |
| :--- |
| -1 |

11. If the average of two numbers is $3 y$ and one of the numbers is $y+z$, what is the other number, in terms of $y$ and $z$ ?
select
$y+z$

12. Given the functions $f(x)=2 x+4$ and $g(x)=3 x-6$, what is $f(g(x))$ when $x=6$ ?
select

144
select
192
select
12
select
16
select
28
$f(x)=3 x 2-5$
$g(x)=9-2 x$
13. Find $f(g(5))$.

| select |
| :---: |
| -2 |
| select |
| 131 |
| select |


14. What is the value of the function $f(x)=6 x^{2}+16 x-6$ when $x=-3$ ?

| select |
| :---: |
| 96 |
| select |
| -12 |
| select |
| -108 |
| select |
| 0 |

