## GRE QUANT PRACTICE PAPER

1. If $x=12$ and $y=23$, then which of the following is equal to $2 x+y$ ?
select

213
select
4
select

103
select
97
select
127
2. Given the functions $f(x)=2 x+4$ and $g(x)=3 x-6$, what is $f(g(x))$ when $x=6$ ?
select

12
select
16
select
144
select
192
select
28
3. What values of $x$ make the statement $|5 x-9| \geq 6$ true?
$\frac{\text { select }}{x \geq 6, x \leq 13}$
select
$x \geq 5, x \leq 15$
select


## Quantitative Comparison

6. Quantity A: $x^{3} / 3$

Quantity B: $(x / 3)^{3}$
select
Quantity A is greater.
select
The two quantities are equal.
select
The relationship cannot be determined from the information given.
select
Quantity B is greater.
7. Simplify the following:

$$
\frac{48^{50}+80^{30}}{4^{20}}
$$


8. Simplify the following rational expression:
$7 x-18 x 2+6 x-14 x 2$

select
$13 \mathrm{x}-32 \mathrm{x} 2$
9. You are told that $x$ can be determined from the expression:

$$
\frac{1}{x^{2}-4}=x^{2}+4
$$

Determine whether the absolute value of $x$ is greater than or less than 2.

| select |
| :--- |
| $\|x\|>2$ |

select
The quantities are equal
select
The relationship cannot be determined from the information given.

| select |
| :--- |
| $\|x\|<2$ |

10. Simplify:

$$
15--\sqrt{ }-20--\sqrt{ }+35--\sqrt{ }
$$


select
$215--\sqrt{ }+2-\sqrt{ }$
select
$2-\sqrt{ }(5-\sqrt{ }+27-\sqrt{ })$
$\frac{\text { select }}{5-\sqrt{ }(10--\sqrt{ }-2)}$
select
$7-\sqrt{ }-35-\sqrt{ }$
11. $180--\sqrt{ }+125---\sqrt{ }=$ ?

| select |
| :---: |
| 25.0 |
| select |
| 17.5 |
| select |


12. Rectangle $A$ has a length of 20 inches and a width of 3 inches. Rectangle $B$ has a length of 9 inches and a width of 10 inches. By what number must the area of rectangle $A$ be multiplied by to equal the area of rectangle $B$ ?

13. 0.5815 is equal to which of the following?

| select |
| :--- |
| s.815 |
| select |
| $0.05815 * 104$ |
| select |
| $5.815 * 10^{-1}$ |
| select |
| $5.815 * 10^{-2}$ |
| select |
| $0.05815 * 10^{-1}$ |

Quantitative Comparison: Compare Quantity A and Quantity B, using additional information centered above the two quantities if such information is given.
14. $10<n<15$

| Quantity A | Quantity B |
| :--- | :--- |
| $7 / 13$ | $4 / n$ |
| select |  |

Quantity B is greater.
select
The answer cannot be determined from the information given.
select
The two quantities are equal.
select
Quantity A is greater.
15 . Which of the following improper fractions is equivalent to 1425 ?
select
725
select
705
select
165
select
843
select
245
16. Solve for x :
$13(4 x+125)=2$
select
910
select
152

## select

13
select
7
select

1229
17. Half of a salad is lettuce. A third of it is tomatoes. The remainder is made of cucumbers. Which of the following is the ratio of lettuce to cucumbers in the salad?

| select |  |
| :--- | :--- |
| $1: 6$ |  |
| select |  |
| $6: 1$ |  |
| select |  |
| $1: 2$ |  |
| select |  |
| $3: 1$ |  |
| select |  |
| $5: 3$ |  |

18. For every two pounds of fudge are bought at the regular price of $\$ 4.25$ per pound, the store gives a free pound of fudge to the customer. Lauren's fudge bill was $\$ 21.25$. How many pounds of fudge did she leave the store with?

## select

7
select
9
select
6
select
5
select

## 8

19. Quantity A: The number of positive even integers less than 1000

Quantity B: The number of positive odd integers less than 1000
select
The two quantities are equal.
select
Quantity A is greater.
select
Quantity $B$ is greater.

The relationship cannot be determined from the information given.

## 20. Column A

5!/3!
Column B
6!/4!
select
The relationship cannot be determined from the information given.
select
The quantity in Column $A$ is greater.
select
The two quantities are equal.
select
The quantity in Column $B$ is greater.
21. If x and y are both less than zero, which of the following is NOT possible?


## select

600
select
6
23. What is the simple interest rate on an account that accrued $\$ 450$ after a year if the original deposit was $\$ 7505$ ? Round your answer to the nearest hundredth.

| $\frac{\text { select }}{4.56 \%}$ |
| :---: |
|  |  |
|  |
| 12.41\% |
| seleot |
| 6\% |
| seleet |
| 16.67\% |
| select |
| 5.05\% |

A college student takes out a loan of $\$ 8,000$ per Quarter. A college student's average living cost is represented by the chart below.

24. Suppose tution is increased by $8 \%$. What is the increase in the percentage of the loan that is spent on tutition and books?

```
select
```

| . $03 \%$ |
| :---: |
| 8\% |
| select |
| 60.97\% |
| select |
| 3.88\% |

25. From a group of 8 students, 3 are attending a meeting.

Quantity A: The number of different groups that could attend among the 8 students Quantity B: 336
select
The relationship cannot be determined from the information given.
select
Quantity A is greater.

## select

The two quantities are equal.
select
Quantity B is greater.
26. The probability that events A and/or B will occur is 0.88 .

Quantity A: The probability that event A will occur.
Quantity B: 0.44 .
select
The two quantities are equal.
select
The relationship cannot be determined from the information given.
select
Quantity B is greater.

```
select
```

Quantity A is greater.
27. Every day is either rainy or sunny. Mondays are rainy with probability $3 / 5$. Tuesdays are sunny with probability $1 / 4$. Wednesdays are also sunny with probability $2 / 3$. What is the probability that the weather is the same on Monday, Tuesday, and Wednesday?
select

13/60

29. Which of the following could be an equation for the red line pictured above?
select
$y=4 x+3$

```
select
\(y=-4 x-2\)
    select
\(y=5 x-4\)
    select
\(y=15 x+12\)
select
\(y=-3 x+3\)
30. Which of the following equations has a y-intercept of 13 ?
select
\(y=(x-4) 2-3\)
    select
\(4 \mathrm{x} 2=12 \mathrm{y}+12\)
    select
\(22 x-2 y=1\)
    select
\(3 y=4 x 2-16\)
    select
\(2 \mathrm{x} 2-16 \mathrm{y}=5\)
```

