## GRE QUANT PRACTICE PAPER

```
1. \(x 30 y=4\)
    \(1797+3 y=15 x\)
    Quantity A
    y
    Quantity B
    1
select
```

The relationship cannot be determined from the information given.
select

The quantities are equal.
select

Quantity A is greater.
select

## Quantity B is greater.

2. John has $\$ 50$ for soda and he must buy both diet and regular sodas. His total order must have at exactly two times as many cans of diet soda as cans of regular soda. What is the greatest number of cans of diet soda John can buy if regular soda is $\$ 0.50$ per can and diet soda is $\$ 0.75$ per can?
select
None of the other answers
select
51
select
25
select
75
select
50
3. Find the intersection of the following two equations:
$3 x+4 y=6$
$15 x-4 y=3$
$\frac{\text { select }}{(1,0.5)}$
select
(0.2, 0)
select
$(18,0)$
select
$(3,4)$
select
(0.5, 1.125)
4. One of the roots of the equation $\mathrm{x}^{2}+\mathrm{kx}-12=0$ is 3 , and k is a constant.

Quantity A: The value of k
Quantity B: - 1
select
The two quantities are equal.
select
Quantity A is greater.
select
Quantity $B$ is greater.

## select

The relationship cannot be determined from the information given.
5. Two cars start 25 mile apart and drive away from each other in opposite directions at speeds of 50 and 70 miles per hour. In approximately how many minutes will they be 400 miles apart?


200
select
3.33
select
187.5
select

## None of the other answers

select
3.125
6. What is the value of $(5+x)(10-y)$ when $x=3$ and $y=-3$ ?
$\frac{\text { select }}{104}$


12. A given university has an average professor pay of $\$ 40,000$ a year and an average administrator pay of $\$ 45,000$ per year. If the ratio of professors to administrators is 4 to 3 , and the total pay for professors and administrators in a year is $\$ 40,415,000$, how many professors does the college have?

| select |
| :---: |
| 500 |
| select |
| 375 |
| select |
| 411 |
| select |
| 548 |
| select |
| 475 |

13. Quantity A: $-5 x+4$ Quantity B: 8-2x
select
The relationship cannot be determined from the information given.
select
The two quantities are equal.
select
Quantity $A$ is greater.
select

## Quantity $B$ is greater.

14. A theme park charges $\$ 10$ for adults and $\$ 5$ for kids. How many kids tickets were sold if a total of 548 tickets were sold for a total of $\$ 3750$ ?


431
select
157
select
346

| select |
| :--- |
| 248 |
| select |
| 269 |

Sally is 2 years younger than Abby
Daisy is 5 years older than Tracy
Abby is 6 years older than Tracy
15. A
---
Sally's age

B
---
Daisy's age
select
Quantity $A$ is greater
select
Quantity $B$ is greater
select
The relationship cannot be determined
select
The two quantities are equal
$x^{2}+5 x-24=0$
$y^{2}-9 y+20=0$
16. Quantity A
x
Quantity B
y
select
Quantity A is greater.

```
select
```

Quantity B is greater.

## select

The two quantities are equal.
select
The relationship cannot be determined from the information given.
17. Jen and Karen are travelling for the weekend. They both leave from Jen's house and meet at their destination 250 miles away. Jen drives 45 mph the whole way. Karen drives 60 mph but leaves a half hour after Jen. How long does it take for Karen to catch up with Jen?
select
1.5 hours
select
She can't catch up.


3 hours


2 hours
18. Solve for $z$ :
$3(z+4)^{3}-7=17$
select
4
select
8


2
select
-8

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

19. If $5(3 x+y)=15$, what is $x$ in terms of $y$ ?
```
select
x=10-y3
    select
```

```
x=3-3y
    select
x=10+y3
    select
x=15+5y3
    select
x=1-y3
20. y= x
    y=15
    Quantity A: y/3
    Quantity B: x
    select
Quantity B is greater.
    select
Quantity A is greater.
```


## select

```
The relationship cannot be determined from the information given.
select
The two quantities are equal.
21. If \(a=1 / 3 b\) and \(b=4 c\), then in terms of \(c, a-b+c=\) ?
```


## select

```
C
select
\(5 / 3 \mathrm{C}\)
select
\(-5 / 3 \mathrm{C}\)
select
\(-11 / 3 \mathrm{C}\)
22. If \(14 x-16 y=16\) and \(y z=12\), then what is the value of \(3 x-z\) ?
```

```
    select
```

    select
    1
1
select
select
2
2
select

```
    select
```


## 4

## select <br> 6 <br> select

3
23. If $x^{3}=8$, then $x^{2}(4 /(3-x))(2 /(4-x))-\left(4 / x^{2}\right)=$ ?
select
16
select
35
select
0
select
15
select
22
24. Sarah's current age is three times Ron's age two years ago. Sarah is currently 14 years older than Ron. What is the sum of Sarah and Ron's current age?
select
24
select
36
select
34
select
32
25. Jack has 14 coins consisting of nickels and dimes that total $\$ 0.90$. How many nickels does Jack have?

| select |
| :--- |
| 10 |
| select |
| 8 |
| select |
| 4 |



27

## select

17

## select

13
29. The sum of two consecutive odd integers is 32 . What is the value of the next consecutive odd integer?

30. A store sells potatoes for $\$ 0.24$ and tomatoes for $\$ 0.76$. Fred bought 12 individual vegetables. If he paid $\$ 6.52$ total, how many potatoes did Fred buy?

```
select
```

5
select
8
select
7
select
2
31. Jon invested part of $\$ 16,000$ at $3 \%$ and the rest at $5 \%$ for a total return of $\$ 680$.

Quantity A: The amount Jon invested at 5\% interest
Quantity B: The amount Jon invested at 3\% interest
select
The two quantities are equal
select
Quantity A is greater

## select

The relationship cannot be determined from the information given
select
Quantity $B$ is greater

## Quantitative Comparison

32. $3 x+4 y=5$
$x-y=6$
Quantity A: $x$
Quantity B: y
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.


36. Two palm trees grow next to each other in Luke's backyard. One of the trees gets sick, so Luke cuts off the top 3 feet. The other tree, however, is healthy and grows 2 feet. How tall are the two trees if the healthy tree is now 4 feet taller than the sick tree, and together they are 28 feet tall?
select
8 and 20 feet
select
11 and 17 feet
select
12 and 16 feet
select
cannot be determined
select
14 and 14 feet
$x+y=12$ and $2 x-y=6$
37. Quantity A: $x$

Quantity B: y
select
The relationship cannot be determined from the information given.
select
Quantity A is greater.
select
Quantity $B$ is greater.
select
The two quantities are equal.

