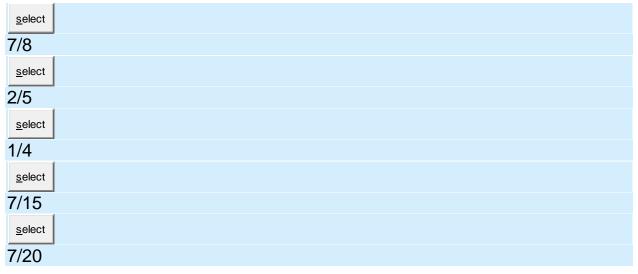
## **GRE QUANT PRACTICE PAPER**

1. A high school has 200 students. 120 are male, 50 are upper division students, and 40 are upper division male students. What is the probability of choosing a lower division female student, given the student is female?



$$A:2x+7y=14$$

$$B:14x=7-2y$$

$$C:91-14y=4x$$

2. Which of the above-listed lines are parallel?

<u>s</u> elect			
None of	f them		
<u>s</u> elect			
All four I	lines		
<u>s</u> elect			
B and D	)		
<u>s</u> elect			
A, C, ar	nd D		
<u>s</u> elect			

## A and C

3. Quantity A: The distance between the points with rectangular coordinates (6,0) and (10,0) Quantity B: The distance between the points with rectangular coordinates (1,1) and (-2,4)

Quantity B is greater.

Select

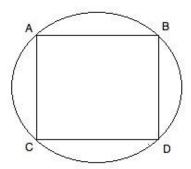
The relationship cannot be determined from the information given.

Select

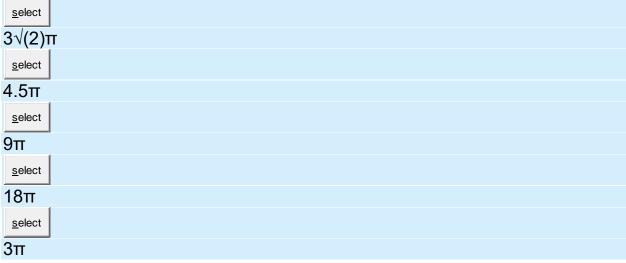
Quantity A is greater.

Select

The two quantities are equal.

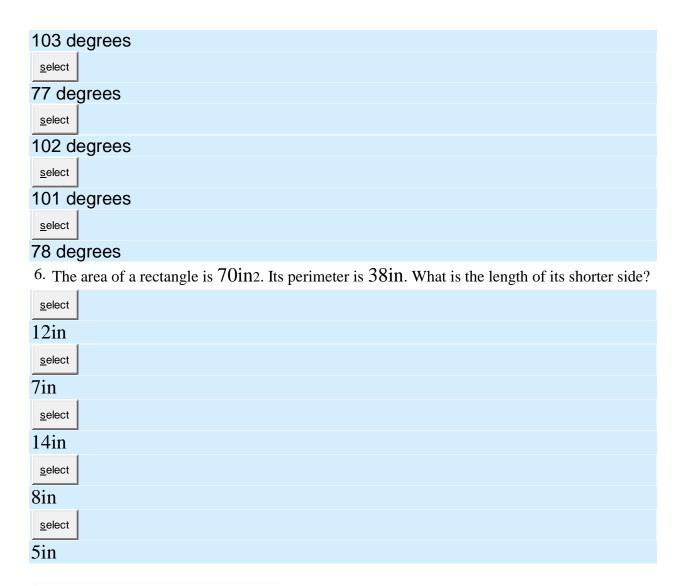


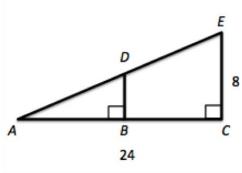
4. In the diagram above, square ABCD is inscribed in the circle. If the area of the square is 9, what is the area of the circle?



5. In a given parallelogram, the measure of one of the interior angles is 25 degrees less than another. What is the approximate measure rounded to the nearest degree of the larger angle?

<u>s</u>elect





7. Given triangle ACE where B is the midpoint of AC, what is the area of triangle ABD?

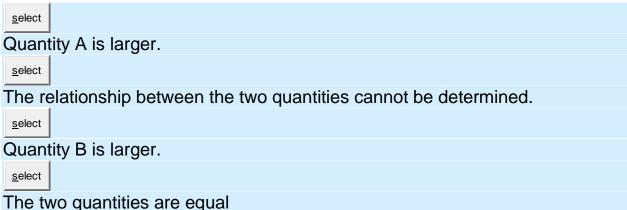
<u>s</u> elect			
72			
<u>s</u> elect			

48	
<u>s</u> elect	
24	
select 96	
96	

Quantity A: The length of a side of a cube with a volume of 343 in<sub>3</sub>.

Quantity B: The length of a side of a cube with surface area of 294 in 2.

8. Which of the following is true?



9. A cube weighs 216 grams. If you carve a sphere out of the cube such that the diameter of the sphere is equal to one of the sides of the square, how many grams is the weight of the resulting sphere?

<u>s</u> elect	
36π	
<u>s</u> elect	
288π	
<u>s</u> elect	
144π	
<u>s</u> elect	
216π	
<u>s</u> elect	
9π	

10. In a given translation project, three translators each took sections of a book to translate. The first translator took 15000 words, which he translated at a rate of 500 words per 20 minutes. The second translator took 200000 words, which he translated at a rate of 1250 words per half hour. The third took 10000 words, which he translated at a rate of 250 words per 15

minutes. In terms of words per hour, what was the overall average translation rate for this project?

project.	
<u>s</u> elect	
750 words per hour	
<u>s</u> elect	
2250 words per hour	
<u>s</u> elect	
1667 words per hour	
select	
667 words per hour	
select	
1575 words per hour	
11 Indicate whether Quentity A or Quent	ity P is greater or if they are equal or if there is not

11. Indicate whether Quantity A or Quantity B is greater, or if they are equal, or if there is not enough information given to determine the relationship.

n > 0Quantity A:  $16^{n+2}$ 

Quantity B:  $2^{\frac{7}{4}} \times (8^{n+1})^2 \div 4^n$ 

<u>s</u>elect

The relationship cannot be determined from the information given.

<u>s</u>elect

The quantities are equal.

<u>s</u>elect

Quantity A is greater.

<u>s</u>elect

Quantity B is greater.

12. If  $[7/8]^n = \sqrt{(7/8)^5}$ , then what is the value of n?

```
^{5}/_{2}
  <u>s</u>elect
 13. Simplify: 3^2 * (4^{23} - 4^{21})
  <u>s</u>elect
4^4
  <u>s</u>elect
3^21
  <u>s</u>elect
3^3 * 4^21 * 5
  <u>s</u>elect
3^3 * 4^21
  <u>s</u>elect
None of the other answers
 14.
      Which of the following is equal to the expression
                                                                                      , where
      xyz \neq 0?
  <u>s</u>elect
1/y
  <u>s</u>elect
ху
  <u>s</u>elect
Z
  <u>s</u>elect
xyz
  <u>s</u>elect
\overline{z/(xy)}
 15. If 3y-13-2=27y3y, what is the value of y?
  <u>s</u>elect
23
  <u>s</u>elect
3
```

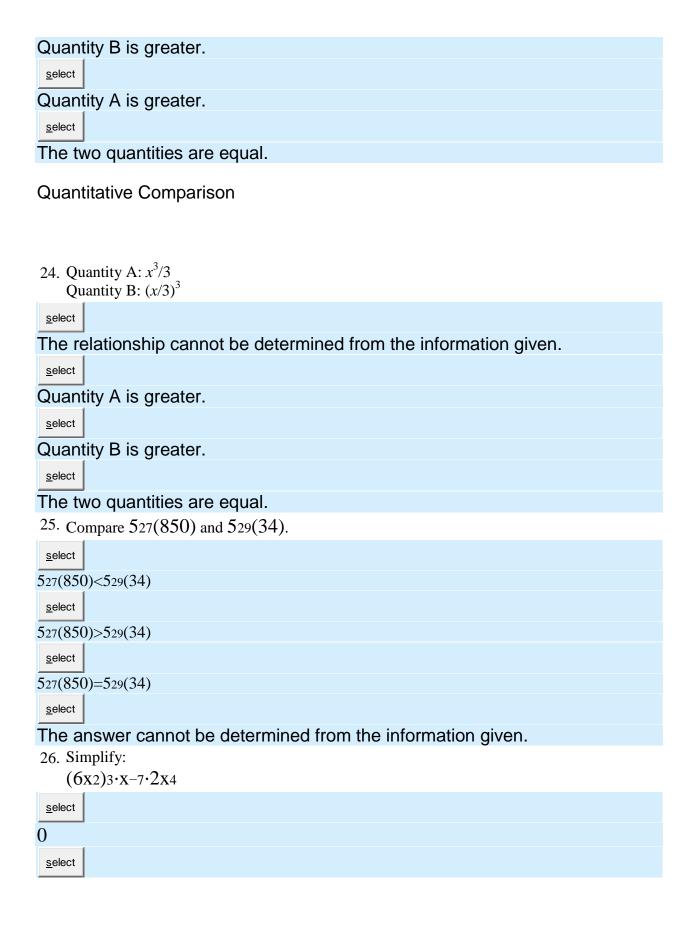
## Simplify

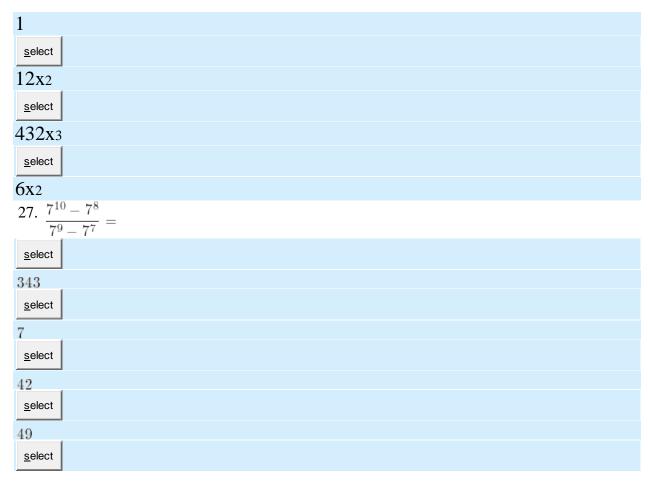
## Quantitative Comparison

18. Quantity A:  $6^4 - 3^2$ Quantity B:  $5^2 - 4^2$ <u>s</u>elect The relationship cannot be determined from the information given. <u>s</u>elect Quantity A is greater. select Quantity B is greater. select The two quantities are equal. 19. Simplify:  $y^3x^4(yx^3 + y^2x^2 + y^{15} + x^{22})$  $2x^4y^4 + 7y^{15} + 7x^{22}$  $y^3x^{12} + y^6x^8 + y^{45}x^4 + y^3x^{88}$  $y^3x^{12} + y^6x^8 + y^{45} + x^{88}$  $y^3x^{12} + y^{12}x^8 + y^{24}x^4 + y^3x^{23}$ <u>s</u>elect  $y^4x^7 + y^5x^6 + y^{18}x^4 + y^3x^{26}$ 20. Evaluate: y=313-95(127)-3<u>s</u>elect 78 <u>s</u>elect 30 select 81 <u>s</u>elect 27select 24

```
21. Solve for x: x^2 = 45 - 12x
 select
-3 or 15
 select
None of the other answers
 <u>s</u>elect
12 or 45
 <u>s</u>elect
-15 or 3
 select
3
Quantitative Comparison: Compare Quantity A and Quantity B, using
additional information centered above the two quantities if such information is
given.
22. Quantity A
                   Quantity B
    (2^3)^2
                     (2^2)^3
 select
The two quantities are equal.
 select
The relationship cannot be determined from the information given.
 select
Quantity A is greater.
 select
Quantity B is greater.
23. Quantity A:
    (0.5)^3(0.5)^3
    Quantity B:
    (0.5)^7
 select
The relationship cannot be determined from the information given.
```

select





a>0, and a is odd.

b>1

28. Quantity A:  $(1-b)_a$ Quantity B:  $(-b)_a$ 

```
Quantity B is greater.

Select

The relationship cannot be determined from the information given.

Select

Quantity A is greater.

Select

The two quantities are equal.
```

29. Which of the following is equal to (54\*55)20?

```
<u>s</u>elect
25180
 <u>s</u>elect
5180
 <u>s</u>elect
529
 <u>s</u>elect
2529
 <u>s</u>elect
540
30. Simplify: (x^3 * 2x^4 * 5y + 4y^2 + 3y^2)/y
 <u>s</u>elect
None of the other answers
 <u>s</u>elect
10x^7y + 7y^2
 <u>s</u>elect
10x^{11} + 7y^3
 <u>s</u>elect
10x^{7} + 7y
 <u>s</u>elect
10x^7 + 7y^3
```