GRE QUANT PRACTICE PAPER

$ \frac{1}{x} = \frac{2}{25} $ Find x.
<u>s</u> elect
None
<u>s</u> elect
50
<u>s</u> elect
0.25
<u>s</u> elect
25 8
<u>s</u> elect
8 25
2. 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?
<u>s</u> elect
350miles/hour
<u>s</u> elect
300miles/hour
<u>s</u> elect
400miles/hour
<u>s</u> elect
450miles/hour
<u>s</u> elect
500miles/hour
3. An outpost has the supplies to last 2 people for 14 days. How many days will the supplies last for 7 people?
<u>s</u> elect
10
10

<u>s</u>elect

```
select
 select
 <u>s</u>elect
4. For all values of x, f(x) = 7x^2 - 3, and for all values of y, g(y) = 2y + 9. What is g(f(x))?
 <u>s</u>elect
14y^2 + 3
 <u>s</u>elect
2x + 9
 <u>s</u>elect
14x^2 + 3
 <u>s</u>elect
7y^2 - 3
 <u>s</u>elect
14x^2 - 3
5. Factor 3u^4 - 24uv^3.
3u(u - 2v)(u^2 - 2uv - 4v^2)
 <u>s</u>elect
3u(u-2v)(u+2v)
3u(u-2v)(u^2+2uv+4v^2)
 <u>s</u>elect
3u(u^3 - 8v^3)
 <u>s</u>elect
3u[u^3 - (2v)^3]
6. Find the slope of the inequality equation y-7 < x+2y-14
 <u>s</u>elect
-7
 <u>s</u>elect
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1		
<u>s</u> elect		
7		
<u>s</u> elect		
-1		
<u>s</u> elect		
0		

7. Audrey, Penelope and Clementine are all sisters. Penelope is 8 years older than Clementine and 2 years younger than Audrey. If the sum of Penelope and Clementine's age is Audrey's age, how old is Clementine's age?

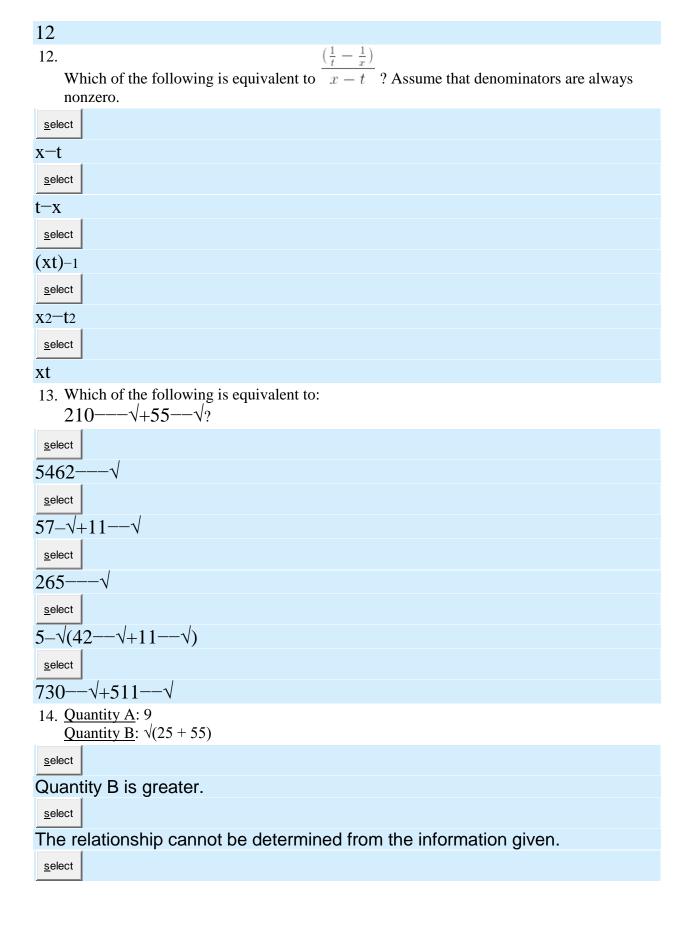
<u>s</u> elect	
4	
select	
2	
select	
8	
select	
3	

8. 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?

<u>s</u> elect	
8 and	20 feet
<u>s</u> elect	
canno	t be determined
<u>s</u> elect	
12 an	d 16 feet
<u>s</u> elect	
14 and	d 14 feet
<u>s</u> elect	
11 and	d 17 feet
	2

9. Solve for x: $(x^2 - x) / (x - 1) = 1$

<u>s</u> elect
No solution
<u>s</u> elect
x = -2
<u>s</u> elect
$\overline{x=2}$
<u>s</u> elect
$\overline{x = -1}$
<u>s</u> elect
$\overline{x} = 1$
10. If a≡0, which of the following is equal to (a6*a2)3a6?
<u>s</u> elect
a ¹⁸
<u>s</u> elect
a
<u>s</u> elect
a^6
<u>s</u> elect
The answer cannot be determined from the above information
<u>s</u> elect
a^4
11. Fran has eight more chickens that Jan. If Fran gives two of her chickens to Jan, Fran will have twice as many chickens as Jan. How many chickens does Fran currently have (before giving two away to Jan)?
<u>s</u> elect
6
<u>s</u> elect
10
<u>s</u> elect
4
<u>s</u> elect
8
<u>s</u> elect



Quantity A is greater.
<u>s</u> elect
The two quantities are equal.
Quantity A: 140 —— $\sqrt{-315}$ —— $\sqrt{-315}$
Quantity B:132 $\sqrt{-297}$ $\sqrt{-297}$
15. Which of the following is true?
<u>s</u> elect
Quantity B is larger.
<u>s</u> elect
The two quantities are equal.
<u>s</u> elect
The relationship cannot be determined from the information provided.
<u>s</u> elect
Quantity A is larger.
16. Find the square root of the following decimal: 0.00064 ——— $\sqrt{}$
select 0.8
select select
0.0253
<u>s</u> elect
0.08
<u>s</u> elect
0.008
17. 4.8144*103 is equal to which of the following?
<u>s</u> elect
4814.4*102
<u>s</u> elect
0.048144*105
<u>s</u> elect
4814.4*103

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<u>s</u>elect
4814.4*10-2
 select
48.144*10-1
18. Solve for X:
    3x8+12=13-2x
 select
432
 select
10021
 <u>s</u>elect
 -8113
 select
 -28057
 select
-57
19. One third of a diet bar is made of shredded fiber. Of the remaining portion, a third is made
    of apples and the remainder is made of soy. What is the ratio of shredded fiber to soy?
 <u>s</u>elect
4:9
 select
1:3
 select
3:2
 select
1:1
 select
3:4
20. An elevated train traveling its night route drops off exactly 2/3 of all passengers currently
    on board at each stop. Assuming no more passengers board the train tonight, if two
    passengers get off at the fifth stop, how many passengers were originally on the train when
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it started its route?

select

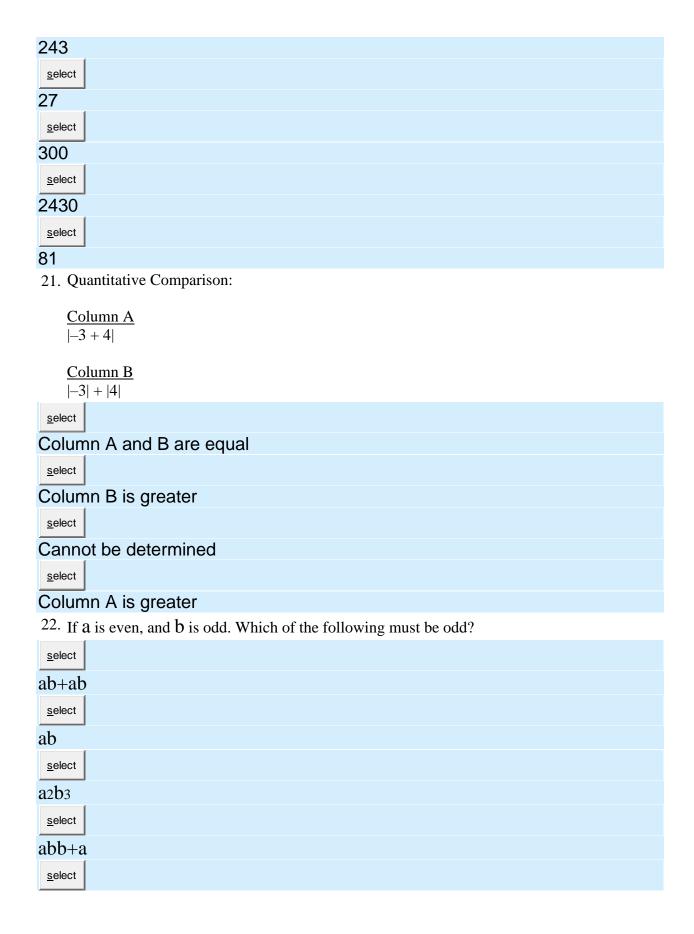


abb-1 23. What is the least common multiple of 3, 4x, 5y, 6xy, and 10y? select $30x^2y^2$ <u>s</u>elect $60x^{2}y$ <u>s</u>elect **25**xy <u>s</u>elect 30xy select 60xy 0>x>y>z24. Quantity A: x-z Quantity B: X+y select The relationship cannot be determined from the information given. Quantity B is greater <u>s</u>elect Quantity A is greater <u>s</u>elect The two quantities are equal The sequence s_n is defined by: $s_n = s_{n-1} - 21$

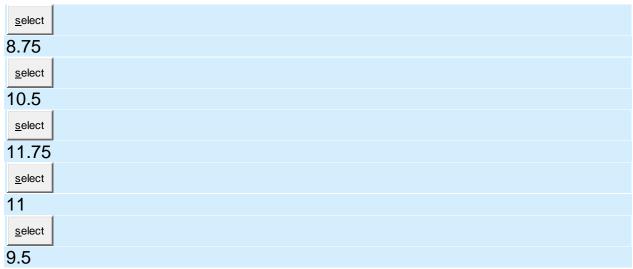
$$s_n = s_{n-1} - 21$$

 $s_1 = 93$

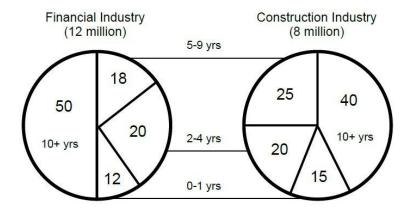
25. What is the value of \$57?

<u>s</u>elect -1176

26. If the sum of four consecutive numbers is 38, what is the mean of the largest and the smallest of the four numbers?

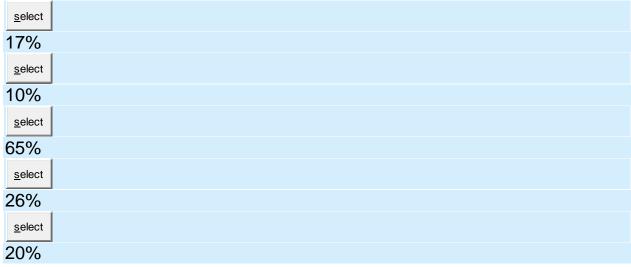


Percentage of Time Spent in a Single Role For Employees in Two Industries, 2008

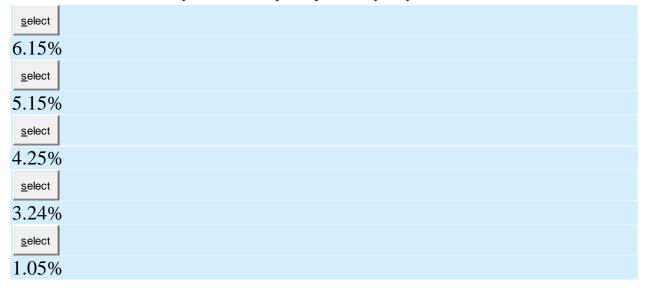


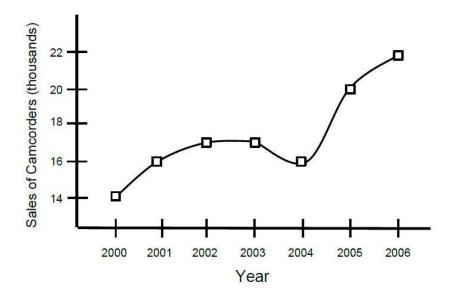
27. If one of the employees across both industries were to be selected at random, what is the

probability that the employee will be a construction industry worker who stayed in the same role for 5 years or more?

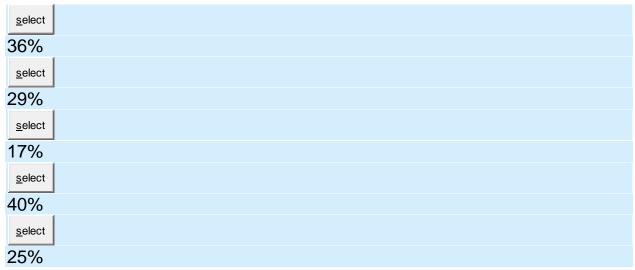


28. What is the interest rate on an account if an original balance of \$12050 rises to \$12670 after one year if it is only compounded yearly?





29. According to the graph above, what was the percent change in the sales of camcorders from 2002-2006?



30. What is the minimum amount of handshakes that can occur among fifteen people in a meeting, if each person only shakes each other person's hand once?

