GRE QUANT PRACTICE PAPER

16. A bakery stocks 3 cookies for every 2 cupcakes and 6 pastries for every 5 cookies. What is the ratio of cupcakes to pastries?

select	
5:9	

select	
2:5	

select	
1:3	

select	
4:5	

select	
4:9	

17. Jessica bought a few pairs of socks for $50. If there had been a 20% discount, she could have bought 5 more pairs of socks for the same total price. How many pairs of socks did she buy?

select	
5	

select	
2	

select	
10	

select	
15	

select	
20	

Quantitative Comparison

18. $|x - 3| = 3$
    Quantity A: x
    Quantity B: 2

select	

Quantity A is greater.

select

Quantity B is greater.

select

The relationship cannot be determined from the information given.

select

The two quantities are equal.

The operation ¤ is defined for all integers x and y as: $x ¤ y = 4x - y^2$.

19. If x and y are positive integers, which of the following **cannot** produce an odd value?

select

$x ¤ y^2$

select

$x ¤ 2y$

select

$y ¤ x$

select

$x ¤ y$

select

$x ¤ (y+1)$

n is a positive integer. $p = 4 * 6 * 11 * n$

20. Quantity A: The remainder when p is divided by 5
    Quantity B: The remainder when p is divided by 33

select

Quantity B is greater.
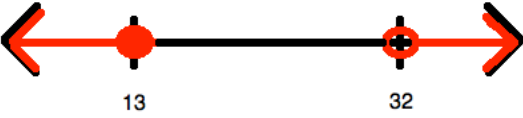
select

Quantity A is greater.

select

The two quantities are equal.

select

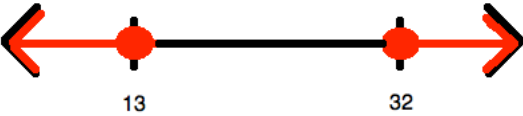The relationship cannot be determined from the information given.

$26 \leq 2x < 64$

21. Which of the following is a graph for the values of X defined by the inequality stated above?

select

13   32

select

13   32

select

13   32

select

13   32

select

13   32

Apples are sold by whole bushels. You cannot purchase part of a bushel. There are 126 apples in a bushel.

22. Sam is a caterer who needs to bake 300 pies to sell at the county fair. If it takes 4 apples to

make a pie, how many bushels must Sam order to ensure he has enough apples for his pies?

| select |
| 11 |

| select |
| 9 |

| select |
| 9.5 |

| select |
| 10 |

| select |
| 12 |

23. What is the sum of all of the four-digit integers that can be created with the digits 1, 2, 3, and 4?

| select |
| 5994 |

| select |
| 37,891 |

| select |
| 711,040 |

| select |
| 482,912 |

| select |
| 48,758 |

24. Which of the following defines any term in a linear sequence having 30 for its first term and 126 for its ninth term?

| select |
| $s_n = s_{n-1} + \dfrac{16}{3}$ |

| select |
| $s_n = s_{n-1} + 8$ |

| select |
| $s_n = s_{n-1} + 12$ |

| select |

$$s_n = 2s_{n-1} + 4$$

select

$$s_n = s_{n-1} + \frac{32}{3}$$

25. Robert has 22.8% of his cereal left. Choose the answer which best expresses as a decimal, how much of his cereal he has eaten.

select

.325

select

.228

select

.22

select

.77

select

.772

26. A group of five students averaged 85 points on an exam taken out of 100 total points. If the addition of two additional students raises the group average to 88 points, what is the minimum score that one of those two students can receive? Assume that 100 is the highest score for the exam.

select

93

select

100

select

None of the other answers

select

95.5

select

91

28. In a bag, there are 10 red, 15 green, and 12 blue marbles. If you draw two marbles (without replacing), what is the approximate probability of drawing two different colors?

select

33.33%

select	
0.06%	

select	
None of the other answers	

select	
67.57%	

select	
25%	

27. How many different license passwords can one make if said password must contain exactly 6 characters, two of which are distinct numbers, another of which must be an upper-case letter, and the remaining 3 can be any digit or letter (upper- or lower-case) such that there are no repetitions of any characters in the password?

select	
231	

select	
456426360	

select	
219	

select	
619652800	

select	
365580800	

Sample Set A has 25 data points with an arithmetic mean of 50.

Sample Set B has 75 data points with an arithmetic mean of 100.

29. Quantity A: The arithmetic mean of the 100 data points encompassing A and B
Quantity B: 80

select	
Quantity A is greater.	

select	
Quantity B is greater.	

select	
The two quantities are equal.	

Which statement is true assuming that *a* represents the range, *b* represents the mean, *c* represents the median, and *d* represents the mode.

30. which sequence is correct for the number set: 8, 3, 11, 12, 3, 4, 6, 15, 1 ?

select

a<c<d<b

select

d<c<b<a

select

b=c<a<d

select

c<b<a<d

select

b<c<a=d