

**GRE QUANT TOPIC TEST – WEEK 1 (Saturday)**

**(Percentage, Profit and Loss, Ratio)**

Column A

65% of a

Column B

2/3 of a

(A) If Quantity A is greater;

(B) If Quantity B is greater;

(C) If the two quantities are equal;

(D) If it is impossible to determine which quantity is greater.

1. Store B always sells CDs at 60% off the list price. Store A sells its CDs at 40% off the list price, but often runs a special sale during which it reduces its price by 20%.

ColumnA ColumnB

The price of a The price of the

CD when it is same CD at store B

on sale at store A

(A) If Quantity A is greater;

(B) If Quantity B is greater;

(C) If the two quantities are equal;

(D) If it is imposible to determine which quantity is greater.

1. A state law requires that on any field trip the ratio of the number of chaperones to the number of students must be at least 1: 12. If 100 students are going on a field trip, what is the minimum number of chaperones required?

(A) 6 (B) 8 (C) 8 (D) 9 (E) 12

1. The population of a country doubles every 10 years from 1960 to 1990. What was the percent increase in population during this time?

(A) 200% (B) 300% (C) 700% (D) 800% (E) 1000%

1. What percentage of 50 is b?

(A) b/50 (B) b/2 (C) 50/b (D) 2/b (E) 2b

1. At Bernie’s Bargain Basement everything is sold for 20% less than the price marked. If Bernie buys radios for $80, what price should he mark them if he wants to make a 20% profit on his cost?

(A) $96 (B) $100 (C) $112 (D) $120 (E) $125

1. Vessel 1 contains 38 litres of milk and vessel 2 contains 24 liters of water. 8 liters of milk is taken from vessel 1 and placed in vessel 2. Then, 20 liters of the mixture is taken from vessel 2 and placed in vessel 1. Find the ratio of milk in vessel 1 to water in vessel 2?

(A) 4:9 (B) 15:35 (C) 15:4 (D) 35:9 (E) 35:3

1. If A had obtained 100% more marks than what he actually obtained, he would still have fallen short of the passing marks by 2% of the total marks. How much did he actually score (in percentage terms) if the passing percentage is 40%?

(A) 9% (B) 19% (C) 38% (D) 40% (E) None of these

1. Sally invited the same numbers of boys and girls to her party. Everyone who was invited came, but five additional boys showed up. This cost the ratio of girls to boys at the party to be 4:5.

Quantity A Quantity B

The number of 40

people she invited

to her party

(A) If Quantity A is greater;

(B) If Quantity B is greater;

(C) If the two quantities are equal;

(D) If it is imposible to determine which quantity is greater.

1. If 80% of the applicants to a program were rejected, what is the ratio of the number accepted to the number rejected?

1. The ratio of red to blue marbles in a jar was 3:5. The same number of red and blue marbles were added to the jar.

Quantity A Quantity B

The ratio of red to 3:5

blue marbles now

(A) If Quantity A is greater;

(B) If Quantity B is greater;

(C) If the two quantities are equal;

(D) If it is imposible to determine which quantity is greater.

1. A shopkeeper sold an article at a loss of 8%. Had he sold it for $540 more, he would have made a profit of 10%. Find the cost price of the article in dollars?

(A) 1800 (B) 2000 (C) 2500 (D) 3000 (E) 3600

1. If sweets are bought at the rate of 20 for a dollar, then how many must be sold for a dollar so as to gain a profit of 25%?
2. On the basis of their performance in a test, Professor Shetty ditribued $798 among Vinod, Vinay and Vinit such that 6 times Vinod’s share is equal to 10 times Vinay’s share or 5 times Vinit’s share. How much does Vinod get in dollars?

(A) 228 (B) 238 (C) 240 (D) 275 (E) 285

1. The price of oil decreases by 30%. What should be the increase in consumption so as to keep the expenditure constant?

(A) 44% (B) 42.86% (C) 48.26% (D) 30% (E) 45%

1. From 1989 to 1990, the number of applicants to a college increased 15% to 5060. How applicants were there in 1989?

|  |
| --- |
|  |

1. In 1985 the populations of town A and town B were the same. From 1985 to 1995 the population of town A increased by 60% while the population of town B decreased by 60%. In 1995, the population of town B was what percent of the population of town A?

(A) 25% (B) 36% (C) 40% (D) 60% (E) 120%

1. The price of a loaf of bread was increased by 20%. How many loaves can be purchased for the amount of money that used to buy 300 loaves?

(A) 240 (B) 250 (C) 280 (D) 320 (E) 360

1. Mrs. Fisher usually deposits the same amount of money each month into a vacation fund. This year she decidednot to make any contributions during November and December. To make the same annual contribution that she had originally planned, by what percent should she increase her monthly deposits from January through October?

(A) 16 

(B) 20%

(C) 25%

(D) 33 

(E) It cannot be determined from the information given.

1. A dishonest shopkeeper uses a faulty spring balance which shows 1 kg for 900 gm. He also marks up the price 20% over the cost price to make a good profit. What will be the profit percentage gained by the shopkeeper in the transaction?

(A) 10% (B) 15% (C) 20% (D) 26.66% (E) 33.33%