GMAT Integrated Reasoning Practice Paper 14

Question 1

Team Legato is competing against Team Forte in a musical duets competition where two members from each team play a song together. Prizes are awarded for first, second, and third place to the three winning duets overall, and not for the three best duets on each individual team. Team Legato has 1/4 as many members as Team Forte.

- From the choices below, identify the number of members on each Team if there are 15 duos competing in total.

A 4

B 6

C 12

D 14

E 24

F 30

Question 2

Team Legato is competing against Team Forte in a musical duets competition where two members from each team play a song together. Prizes are awarded for first, second, and third place to the three winning duets overall, and not for the three best duets on each individual team. Team Legato has 1/4 as many members as Team Forte.

- Identify the number of possible duos on each team if there are 60 members of Team Forte.

A. 105

B. 370

C. 705

D. 770

E. 1105

F. 1770

Question 3

Clearwater State Bank is offering an introductory 20% interest rate on a new account, which will compound semi-annually for the first two years, then compound 5% annually thereafter. Customer 1 deposits $100 in that account to start. To compete, Clearwater Credit Union is offering a similar offer. Their newest account offers an introductory rate of 15% compounded quarterly for the first year, and a rate of 6% compounded quarterly thereafter. Customer 2 deposits an unknown amount with Clearwater Credit Union. After two years, the customers had an equal amount saved.

- From the choices below, identify approximately how much extra Customer 1 would earn by keeping his money in Clearwater State Bank for four years versus two years, and also identify the difference in the final balances if he moved his investment to Clearwater Credit Union halfway through the four years. Make two selections.

A. 15

B. 19

C. 111

D. 224

E. 233

F. 458

Question 4

Team Legato is competing against Team Forte in a musical duets competition where two members from each team play a song together. Prizes are awarded for first, second, and third place to the three winning duets overall, and not for the three best duets on each individual team. Team Legato has 1/4 as many members as Team Forte.

- If there are 20 duos competing, identify the closest approximate number of possible different arrangements of medal winners if it is not possible for one team to “sweep” the awards and Team Legato must come in first, and the number of possible different arrangements of medal winners if there are half as many participants.

A 10,000

B 100,000

C 500,000

D 1 million

E 1.5 million

F 3 million

Question 5

Clearwater State Bank is offering an introductory 20% interest rate on a new account, which will compound semi-annually for the first two years, then compound 5% annually thereafter. Customer 1 deposits $100 in that account to start. To compete, Clearwater Credit Union is offering a similar offer. Their newest account offers an introductory rate of 15% compounded quarterly for the first year, and a rate of 6% compounded quarterly thereafter. Customer 2 deposits an unknown amount with Clearwater Credit Union. After two years, the customers had an equal amount saved.

- From the choices below, identify the closest approximate amount the first customer's investment was worth after four years, and the difference in value of each customer's investment after four years. Make two selections.

A 3

B 30

C 80

D 100

E 130

F 160

Question 6

Clearwater State Bank is offering an introductory 20% interest rate on a new account, which will compound semi-annually for the first two years, then compound 5% annually thereafter. Customer 1 deposits $100 in that account to start. To compete, Clearwater Credit Union is offering a similar offer. Their newest account offers an introductory rate of 15% compounded quarterly for the first year, and a rate of 6% compounded quarterly thereafter. Customer 2 deposits an unknown amount with Clearwater Credit Union. After two years, the customers had an equal amount saved.

- From the choices below, identify the amount Customer 1 will have in Clearwater State Bank after one year, and the amount Customer 1 will have after 21 months if he moves his balance at the end of the first year to Clearwater Credit Union. Make two selections.

A. 121

B. 135

C. 168

D. 186

E. 208

F. 220