2022

The Sample of Master in Finance Admission Test

Problem solving

Directions: Solve each of the following questions; then indicate the correct answer.

1. A salesman's income consists of commission and base salary. His weekly income totals over the past 5weeks have been $360, $390, $430, $415 and $450. What must his average income over the next two weeks be to increase his average weekly income to $460 over the 7-week period?

A. $570
B. $587.50
C. $557.50
D. $586
E. $615

2. A fish tank is one-fourth full of water. If six gallons of water were added, the tank would be three-fourths full. What is the capacity of the tank (in gallons)?

A. 10
B. 14
C. 18
D. 12
E. 8

3. The value of a cellular phone declines by 33percent of its current value every year. At this rate, approximately how many years will it takes for the price of a $243cell phone to reach $72?

A. 2.5
B. 2
C. 3
D. 13
E. 13.5

4. City B is 4 km due east of city A. City C is 3 km due south of city B. City D is 4km due east of city C, and city E is 9 km due north of city D. What is the distance between city A and city E?

A. 10 km
B. 20 km
C. 24 km
D. 30 km
E. 42 km

5. If a certain factory produces 24 Pepsi bottles of 1 liter capacity each in 12 minutes, approximately how many Pepsi bottles does it produce in one hour?

A. 110
B. 120
C. 124
D. 140
E. 100

6. An Olympic diver received the following scores: 6.0, 7.0, 7.5, 6.5 and 8.0. The standard deviation of these scores is in which of the following ranges?

A. 4 – 6.9
B. 2 – 3.9
C. 0 – 2.9
D. 7 – 7.9
E. 8 – 9.9

Data Sufficiency

Directions: Each of the following problems has a question and two statements which are labeled (1) and (2). Use the data given in (1) and (2) together with other available information to decide whether the statements are sufficient to answer the question. Then fill in space
(A) If you can get the answer from (1) ALONE but not from (2) alone.
(B) If you can get the answer from (2) ALONE but not from (1) alone.
(C) If you can get the answer from BOTH (1) and (2) TOGETHER but not from (1) alone or (2) alone.
(D) If EITHER statement (1) ALONE OR statement (2) ALONE suffices.
(E) If you CANNOT get the answer from statements (1) and (2) TOGETHER but need even more data

1. What is the distance between two cities X and Y? City Z is 60miles due south of city X.
(1) The distance between cities Y and Z is 80 miles.
(2) City Z is due west of city Y.
2. A fish tank has two holes A and B. How long will it take for the two holes A and B to empty the tank if they each worked alternately for an hour at a time, starting with hole B?
(1) Working alone, hole A can empty the tank in 5 hours.
(2) Hole B takes twice the time as that of hole A
3. Is the perimeter of a given rectangle greater than 10 cm?
(1) The length of the rectangle is 2 cm greater than the width.
(2) The two shorter sides of the rectangle are 2.5 cm long.
4. What is the value of the integer P?
(1) P is an integer multiple of 2, 4 and 5.
(2) $P < 60$
5. What is the value of X, if X and Y are two distinct integers and their product is 30?
(1) X is an odd integer
(2) $X > Y$
6. What is the average test score of Anna, Bob, Claire, Donald and Emma?
(1) The average of test scores of Bob, Claire and Emma is 87.
(2) The average of test scores of Anna and Donald is 84.