2007 MBA – DATA SUFFICIENCY QUESTION PAPER

TIME : 3 HOUR

Question 1 of 25 for Data sufficiency

What are the integral sides of a right angled triangle PQR?

(1) Sum of squares of sides = 50.

(2) Perimeter of the triangle = 12.

1. If you can get the answer from any one of the statements.
2. If you can get the answer from either of the statements.

3. If you can get the answer from (1) and (2) together, although neither statement by itself suffices.
4. If you cannot get the answer from statements (1) and (2) together, but need even more data.

Question 2 of 25
If 2 Y + 5X < Z, is Y positive? [all 3 are real numbers]

(1) X = 15

(2) Z = 21

1. If you can get the answer from any one of the statements.
2. If you can get the answer from either of the statements.
3. If you can get the answer from (1) and (2) together, although neither statement by itself suffices.
4. If you cannot get the answer from statements (1) and (2) together, but need even more data.

Question 3 of 25
In a ABC, angle B = 90? and AB = BC. What is the area of triangle ABC?

(1) AB = 6

(2) AC = ? (72)

1. If you can get the answer from any one of the statements.
2. If you can get the answer from either of the statements.
3. If you can get the answer from (1) and (2) together, although neither statement by itself suffices.
4. If you cannot get the answer from statements (1) and (2) together, but need even more data.

Question 4 of 25
Is X = 60?

(1) p = – q

(2) The average of X, p, q is 10

1. If you can get the answer from any one of the statements.
2. If you can get the answer from either of the statements.
3. If you can get the answer from (1) and (2) together, although neither statement by itself suffices.
4. If you cannot get the answer from statements (1) and (2) together, but need even more data.

Question 5 of 25
Is a = 100?

(1) The average of a, X, Y is 36

(2) X = Y

1. If you can get the answer from any one of the statements.
2. If you can get the answer from either of the statements.
3. If you can get the answer from (1) and (2) together, although neither statement by itself suffices.
4. If you cannot get the answer from statements (1) and (2) together, but need even more data.

Question 6 of 25
Which book price was reduced the least?

(1) The small Hindi book price was reduced by 50%.

(2)The large book price was reduced by 20%.

1. If you can get the answer from any one of the statements.
2. If you can get the answer from either of the statements.
3. If you can get the answer from (1) and (2) together, although neither statement by itself suffices.
4. If you cannot get the answer from statements (1) and (2) together, but need even more data.

Question 7 of 25
What percentage of students in a class are sensible?

(1) 12 students are not sensible.

(2) Ratio of sensible to mediocre students is 8 : 3.

1. If you can get the answer from any one of the statements.
2. If you can get the answer from either of the statements.
3. If you can get the answer from (1) and (2) together, although neither statement by itself suffices.
4. If you cannot get the answer from statements (1) and (2) together, but need even more data.

Question 8 of 25
Is A > B?

(1) A = 3B

(2) A = X2 – 2XY + Y2 and B = X2 + 2XY + Y2

1. If you can get the answer from any one of the statements.
2. If you can get the answer from either of the statements.
3. If you can get the answer from (1) and (2) together, although neither statement by itself suffices.
4. If you cannot get the answer from statements (1) and (2) together, but need even more data.

Question 9 of 25
Is C > D ?

(1) C = (a – 1) (a2 + a + 1) ; D = (a + 1) (a2 – a + 1)

(2) C = – 3D

1. If you can get the answer from any one of the statements.
2. If you can get the answer from either of the statements.
3. If you can get the answer from (1) and (2) together, although neither statement by itself suffices.
4. If you cannot get the answer from statements (1) and (2) together, but need even more data.

Question 10 of 25
Is (a + b) an odd integer? [given a, b are integers]

(1) 5 < a < 10

(2) 6 < b < 8

1. If you can get the answer from any one of the statements.
2. If you can get the answer from either of the statements.
3. If you can get the answer from (1) and (2) together, although neither statement by itself suffices.
4. If you cannot get the answer from statements (1) and (2) together, but need even more data.

Question 11 of 25
Is (a + b) an even integer? [given a, b are integers]

(1) 13 < a < 15

(2) – 7 < b < – 5

1. If you can get the answer from any one of the statements.
2. If you can get the answer from either of the statements.
3. If you can get the answer from (1) and (2) together, although neither statement by itself suffices.
4. If you cannot get the answer from statements (1) and (2) together, but need even more data.

Question 12 of 25
Is (X + Y) an odd integer? [X, Y are integers]

(1) (X + Y)/4 = 3

(2) (X + Y)/2 = 31

1. If you can get the answer from any one of the statements.
2. If you can get the answer from either of the statements.
3. If you can get the answer from (1) and (2) together, although neither statement by itself suffices.
4. If you cannot get the answer from statements (1) and (2) together, but need even more data.

Question 13 of 25
If X, Y > 0, what is 5 XY2?

(1) 4 XY2 = 9 X3 Y5/ (XY)

(2) X, Y are both prime number

1. If you can get the answer from any one of the statements.
2. If you can get the answer from either of the statements.
3. If you can get the answer from (1) and (2) together, although neither statement by itself suffices.
4. If you cannot get the answer from statements (1) and (2) together, but need even more data.

Question 14 of 25
How many maths books are there on the shelf?

(1) There are books of 3 different subjects (including Physics) on the shelf.

(2) There are equal maths and physics books on the shelf having 24 books.

1. If you can get the answer from any one of the statements.
2. If you can get the answer from either of the statements.
3. If you can get the answer from (1) and (2) together, although neither statement by itself suffices.
4. If you cannot get the answer from statements (1) and (2) together, but need even more data.

Question 15 of 25
Is X a real fractional number?

(1) ?X > X

(2) X > 0

1. If you can get the answer from any one of the statements.
2. If you can get the answer from either of the statements.
3. If you can get the answer from (1) and (2) together, although neither statement by itself suffices.
4. If you cannot get the answer from statements (1) and (2) together, but need even more data.

Question 16 of 25
What is the value of X?

(1) X2 + X = 2

(2) X2 + 2X – 3 = 0

1. If the question can be solved using any one of the statements.
2. If the question can be solved using either of the statements.
3. If the question can be solved using both but not either alone.
4. If the question cannot be solved using the given statements.

Question 17 of 25

Is AB parallel to CD?
(1) Angle a + angle b = 180
(2) Angle a + angle c + angle d + angle e = 360

1. If the question can be solved using any one of the statements.
2. If the question can be solved using either of the statements.
3. If the question can be solved using both but not either alone.
4. If the question cannot be solved using the given statements.

Question 18 of 25
A, B and C are three consecutive even integers (not necessarily in order). Which has the greatest value

(1) A + B = C

(2) C is a positive number.

1. If the question can be solved using any one of the statements.
2. If the question can be solved using either of the statements.
3. If the question can be solved using both but not either alone.
4. If the question cannot be solved using the given statements.

Question 19 of 25
If X and Y are non-negative, is (X + Y) greater than XY?

(1) X = Y

(2) X + Y is greater than X2 + Y2

1. If the question can be solved using any one of the statements.
2. If the question can be solved using either of the statements.
3. If the question can be solved using both but not either alone.
4. If the question cannot be solved using the given statements.

Question 20 of 25
How heavy is one brick? (assume all of equal weights)
(1) Two bricks weigh as much as three minus 6 kg.
(2) Three bricks weigh as much as one brick plus 18 kg.

1. If the question can be solved using any one of the statements.
2. If the question can be solved using either of the statements.
3. If the question can be solved using both but not either alone.
4. If the question cannot be solved using the given statements.

Question 21 of 25
Is a. |b| positive.
(1) One of the number a, b is positive and the other is negative.
(2) |a|, b is positive

1. If the question can be solved using any one of the statements.
2. If the question can be solved using either of the statements.
3. If the question can be solved using both but not either alone.
4. If the question cannot be solved using the given statements.

Question 22 of 25
Is n a perfect square?

(1) n3 is a perfect square.

(2) n2 is a perfect square.

1. If the question can be solved using any one of the statements.
2. If the question can be solved using either of the statements.
3. If the question can be solved using both but not either alone.
4. If the question cannot be solved using the given statements.

Question 23 of 25
Is p even?

(1) 3p is odd

(2) 4p is even

1. If the question can be solved using any one of the statements.
2. If the question can be solved using either of the statements.
3. If the question can be solved using both but not either alone.
4. If the question cannot be solved using the given statements.

Question 24 of 25
How many mangoes does Rakesh have?
(1) Rakesh has twice as many mangoes as Suresh has.
(2) Suresh has four mangoes less than Rakesh.

1. If the question can be solved using any one of the statements.
2. If the question can be solved using either of the statements.
3. If the question can be solved using both but not either alone.
4. If the question cannot be solved using the given statements.

Mark for revision | Unmark
Question 25 of 25
What is the value of ?

(1) x = 2

(2) (x – y)2 = 2xy

1. If the question can be solved using any one of the statements.
2. If the question can be solved using either of the statements.
3. If the question can be solved using both but not either alone.
4. If the question cannot be solved using the given statements.