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QUESTION 1

Mickey made an X dollars loan at the beginning of 1996. Travis, who is Mickey's little brother also made a loan, only twice as large as Mickey's but with the same interest. If Travis pays \$10,000 interest on his loan each year, how big is Mickey's loan?

(1)

The rate of interest on the loan that Travis took is 6% annually.

(2)

The loan that Travis made was \$166,667.

A.

Statement (1) BY ITSELF is sufficient to answer the question, but statement (2) by itself is not.

B.

Statement (2) BY ITSELF is sufficient to answer the question, but statement (1) by itself is not.

C.

Statements (1) and (2) TAKEN TOGETHER are sufficient to answer the question, even though NEITHER statement BY ITSELF is sufficient.

D.

Either statement BY ITSELF is sufficient to answer the question.

E.

Statements (1) and (2) TAKEN TOGETHER are NOT sufficient to answer the question, requiring more data pertaining to the problem.

Correct Answer: D

From statement (1) we know the rate of interest so we can find how much money Travis loaned and multiply it by 2 to get Mickey's loan.

From statement (2) we know the amount Travis loaned, which is doubled than that of Mickey. Therefore, both statements, by themselves, are sufficient to answer the question.

QUESTION 2

A snail, climbing a 20 feet high wall, climbs up 4 feet on the first day but slides down 2 feet on the second. It climbs 4 feet on the third day and slides down again 2 feet on the fourth day. If this pattern continues, how many days will it take the snail to reach the top of the wall?

A. 12

B. 16

C. 17

D. 20

E. 21

Correct Answer: C

The snail climbs 2 feet every 2 days, hence, on the 16th day he is 16 feet up the wall. The snail needs only the 17th day to climb 4 feet more and reach the top of the wall.

QUESTION 3

If A, B and C are consecutive integers (A; C = 6).

QUESTION 4

X, Y and Z are three numbers. If $Y = 5$, what is their sum?

(1)

$$X - Z = 10.$$

(2)

$$Z - Y = 15.$$

A.

Statement (1) BY ITSELF is sufficient to answer the question, but statement (2) by itself is not.

B.

Statement (2) BY ITSELF is sufficient to answer the question, but statement (1) by itself is not.

C.

Statements (1) and (2) TAKEN TOGETHER are sufficient to answer the question, even though NEITHER statement BY ITSELF is sufficient.

D.

Either statement BY ITSELF is sufficient to answer the question.

E.

Statements (1) and (2) TAKEN TOGETHER are NOT sufficient to answer the question, requiring more data pertaining to the problem.

Correct Answer: C

We need to find the value of $X+Y+Z$. Y is given to us so we need the value of $(X+Z)$. Statement (1) is insufficient by itself since we are given the value of $(X \cdot Z)$ and not $(X + Z)$. From statement (2) we can find the value of Z , and from there return to statement (1) and find the value of X . Both statements, taken together, are sufficient.

QUESTION 5

Is $(a+b)^2 + (a+b)^3$ even?

(1)

a and b are positive.

(2)

$a > b$.

A.

Statement (1) BY ITSELF is sufficient to answer the question, but statement (2) by itself is not.

B.

Statement (2) BY ITSELF is sufficient to answer the question, but statement (1) by itself is not.

C.

Statements (1) and (2) TAKEN TOGETHER are sufficient to answer the question, even though NEITHER statement BY ITSELF is sufficient.

D.

Either statement BY ITSELF is sufficient to answer the question.

E.

Statements (1) and (2) TAKEN TOGETHER are NOT sufficient to answer the question, requiring more data pertaining to the problem.

Correct Answer: D

Each statement alone is sufficient since there are only three possibilities:

(1)

a and b are even.

(2)

a and b are both odd.

(3)

One is odd and the other is even.

Any of the options give us an even result, thus, the expression is always even.

QUESTION 6

There are ten players in the basketball team. If the average height of the players is 170 cm, what will be the new average height if a 192 cm player will join the team?

- A. 181.
- B. 172.2.
- C. 172.
- D. 168.
- E. 184.

Correct Answer: C

The new player is $(192 - 170 = 22)$ cm above average. Dividing the extra height among 11 players is 2 cm per player, thus the new average height is $(170 + 2 = 172)$ cm.

QUESTION 7

What was the maximum wind speed on January 1998?

(1)

The average (arithmetic mean) of the maximum monthly wind speed between March 1997 and January 1998 is 35 knots, which was higher by 12 knots from the average (arithmetic mean) of the maximum monthly wind speed between February 1997 and December 1997.

(2)

The maximum wind speed on January 1998 was 8 knots higher than the maximum wind speed on February 1997.

A.

Statement (1) BY ITSELF is sufficient to answer the question, but statement (2) by itself is not.

B.

Statement (2) BY ITSELF is sufficient to answer the question, but statement (1) by itself is not.

C.

Statements (1) and (2) TAKEN TOGETHER are sufficient to answer the question, even though NEITHER statement BY ITSELF is sufficient.

D.

Either statement BY ITSELF is sufficient to answer the question.

E.

Statements (1) and (2) TAKEN TOGETHER are NOT sufficient to answer the question, requiring more data pertaining to the problem.

Correct Answer: C

The question doesn't tell us much, go straight to the statements. From statement (1) we can find the sum of the wind speeds between March 1997 and January 1998, which is $(11 \times 35 = 385 \text{ knots})$. The average of the other group of months is $(11 \times (35 - 12) = 253)$.

The difference between the two numbers is the sum of the maximum in January 1998 and February 1997.

Define J as the maximum on January and F as the maximum on February, you can write the following equation: $J + F = (385 - 253 = 112)$. J is what we're looking for.

Statement (2) can be written as $J - F = 8$.

We have two simple equations with two unknowns, both statements together are sufficient.

QUESTION 8

If X and Y are integers and $X + Y$

(1)

X

(2)

$Y > -4$.

A.

Statement (1) BY ITSELF is sufficient to answer the question, but statement (2) by itself is not.

B.

Statement (2) BY ITSELF is sufficient to answer the question, but statement (1) by itself is not.

C.

Statements (1) and (2) TAKEN TOGETHER are sufficient to answer the question, even though NEITHER statement BY ITSELF is sufficient.

D.

Either statement BY ITSELF is sufficient to answer the question.

E.

Statements (1) and (2) TAKEN TOGETHER are NOT sufficient to answer the question, requiring more data pertaining to the problem.

Correct Answer: D

From each of the statements by itself we cannot determine if X can be greater than Y. Using both statements, we know the values each of the variables can get:

X: -3, -4, -5, ...

Y: -3, -2, -1, ...

We can see that X, at the most, can be equal to Y but it cannot be greater. Both statements, taken together, are sufficient.

QUESTION 9

What is the measure of an interior vertex angle of a pentagon?

(1)

The measure of each adjacent exterior angle is 72.

(2)

The pentagon is a regular polygon.

A.

Statement (1), BY ITSELF, will suffice to solve the problem, but NOT statement (2) by itself.

B.

Statement (2), BY ITSELF, will suffice to solve the problem, but NOT statement (1) by itself.

C.

The problem can be solved using statement (1) and statement (2) TOGETHER, but not ONLY statement (1) or statement (2).

D.

The problem can be solved using EITHER statement (1) only or statement (2) only.

E.

The problem CANNOT be solved using statement (1) and statement (2) TOGETHER.

Correct Answer: D

Either statement is sufficient. Statement (1) is sufficient because if the measure of each adjacent exterior angle is 72, then the measure of the interior angle is $180 - 72 = 108$. Statement (2) is also sufficient. Regular polygons contain congruent sides and congruent angles. If the pentagon is made up of 540 degrees, then $540 \div 5 = 108$ in each angle.

QUESTION 10

How long will it take Jim to wax his car?

(1)

It would take Jim and Mike 40 minutes to wax Jim's car.

(2)

It would take Mike 1 hour and 20 minutes to wax his car.

A.

Statement (1) BY ITSELF is sufficient to answer the question, but statement (2) by itself is not.

B.

Statement (2) BY ITSELF is sufficient to answer the question, but statement (1) by itself is not.

C.

Statements (1) and (2) TAKEN TOGETHER are sufficient to answer the question, even though NEITHER statement BY ITSELF is sufficient.

D.

Either statement BY ITSELF is sufficient to answer the question.

E.

Statements (1) and (2) TAKEN TOGETHER are NOT sufficient to answer the question, requiring more data pertaining to the problem.

Correct Answer: E

Statement (1) gives us the output of Jim and Mike together on Jim's car only. Statement (2) gives us Mike's output on his car and not Jim's car and therefore we can't conclude anything about the output of Mike on Jim's car. More sufficient data is required.

QUESTION 11

Of 70 players on a football team, 37 are throwers. The rest of the team is divided so one third are left-handed and the rest are right handed. Assuming that all throwers are right handed, how many right-handed players are there total?

A. 54

B. 59

C. 63

D. 71

E. 92

Correct Answer: B

70-37 are the rest. Meaning that $33/3 = 11$ are left-handed. The overall number of right handed: $37 + 22 = 59$.

QUESTION 12

What is the probability of getting an identical result on three consecutive tosses of a coin?

- A.
- B.
- C.
- D.
- E.

Correct Answer: B

$$\frac{1}{2}$$

The first toss will be either heads or tails. The probability that the result on the second toss is identical to the first is $\frac{1}{2}$. The probability that the result on the third toss is identical to that of the second is also $\frac{1}{2}$.

$$\frac{1}{2}$$

$$\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$$

QUESTION 13

Eric, Nick and Archi make contributions to the Society Of Nature Protection in the ratio of 5:3:2.5. If altogether they contribute 5145 Nis, how much more money does Nick contribute than Archi?

- A. 128 Nis
- B. 212 Nis
- C. 234 Nis
- D. 245 Nis

E. 288 Nis

Correct Answer: D

Add the numbers in the ratio $5:3:2.5 = 10.5$. Divide the 5145 by 10.5 and you get the basic Unit = 490 Nis. Nick contributes 0.5 more units than Archi, and since each unit is 490, he contributed 245 Nis more.

QUESTION 14

If x and y are integers, is $3x(0.5)y$

(1)

$$y = 2x.$$

(2)

$$x = 8.$$

A.

Statement (1) BY ITSELF is sufficient to answer the question, but statement (2) by itself is not.

B.

Statement (2) BY ITSELF is sufficient to answer the question, but statement (1) by itself is not.

C.

Statements (1) and (2) TAKEN TOGETHER are sufficient to answer the question, even though NEITHER statement BY ITSELF is sufficient.

D.

Either statement BY ITSELF is sufficient to answer the question.

E.

Statements (1) and (2) TAKEN TOGETHER are NOT sufficient to answer the question, requiring more data pertaining to the problem.

Correct Answer: C

Use statement (1) to write the expression: $3x(0.5)2x = (0.75)x$ the value of this expression can be either

smaller or larger than 1, if x was only a positive integer the answer would be distinct. Use statement (2)

alone to write the expression: $38(0.5)y$ this expression is either bigger or smaller than 1.

Use both statements together: $(0.75)8$

QUESTION 15

There are two major statues in Tasmanian County; the first is no more than 45 meters high. How tall is the second statue?

(1)

The second statue is 10 meters higher than the first statue.

(2)

Both statues together are 80 meters high.

A.

Statement (1) BY ITSELF is sufficient to answer the question, but statement (2) by itself is not.

B.

Statement (2) BY ITSELF is sufficient to answer the question, but statement (1) by itself is not.

C.

Statements (1) and (2) TAKEN TOGETHER are sufficient to answer the question, even though NEITHER statement BY ITSELF is sufficient.

D.

Either statement BY ITSELF is sufficient to answer the question.

E.

Statements (1) and (2) TAKEN TOGETHER are NOT sufficient to answer the question, requiring more data pertaining to the problem.

Correct Answer: C

The information on the first statue in the question is confusing and irrelevant. Statement (1) tells us that: B

$= A + 10$ (A is the first and B is the second statue). Statement (2) tells us that: $A + B = 80$, therefore we

have two equations with two variables and so we can solve the problem.

Therefore, both statements are required in order to answer the question.

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