GMAT-QUANTITIVE^{Q&As}

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QUESTION 1

Ruth\\'s age is two-thirds of Chris\\'s age. How old is Chris?

(1)

Two years ago Ruth was half the age Chris is today.

(2)

Four and a half years from now Ruth will be seven eights of Chris\\'s age.

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 the question we know that R (Ruth) = (Chris). That\\'s one equation with two variables; we need one more equation to solve the problem. Both statements are suitable equations and thus the answer is (d).

QUESTION 2

If X = 23 x 52 x 7, then the expression X/8 is not divisible by:

A. 1.

B. 2.

C. 5.

D. 7.

E. 25.

Correct Answer: B

From the given expression we learn that X/8 = 25 x 7, which is not divisible by 2.

QUESTION 3

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

QUESTION 4

A taxicab fare costs x dollars for the first quarter of a mile and ¼x dollars for each quarter of a mile after that. How much will the total cost be for a 2½ mile ride?

A. 3x

B. 13/4x

C. 10x

D. 5/4x

E. 2.5x

Correct Answer: B

2½ miles divided by 1/4 is ten quarter miles. Since the first quarter mile costs x amount, the other nine quarter miles cost 1/4 x, so 9 × 1/4x = 9/4 x.x + 9/4x = 4/4x + 9/4x = 13/4x.

QUESTION 5

Merline made a $360,000 mortgage on a house. How much interest total will she pay?

(1)

 The simple interest rate is 8.5% annually.

(2)

 It will take Merline 12 years to return the loan on the house.

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

Statement (1) implies that the annual interest is 8.5%. it is not sufficient by itself since we do not have the

time period of the return.

Statement (2) implies that 12 years have passed until Merline paid the loan but we do not have the interest

rate.

During the 12 years, we can calculate the interest every year until we reach 12 years. Both statements

together are sufficient.

A simple interest can be calculated using the following formula:

Principle (money loaned or invested)*rate (percent) *time = interest paid