GMAT-QUANTITIVE Q&As

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QUESTION 1

A Math-club class has a ratio of girls to boys of 1.5 to 4.5. Out of all the boys 16.66% are left-handed, how many left-handed boys are there in the class assuming that there are 24 students all together.

A. 8

B. 6

C. 5

D. 4

E. 3

Correct Answer: E

This is a standard ratio problem. 24 / (1.5 + 4.5) = 4.

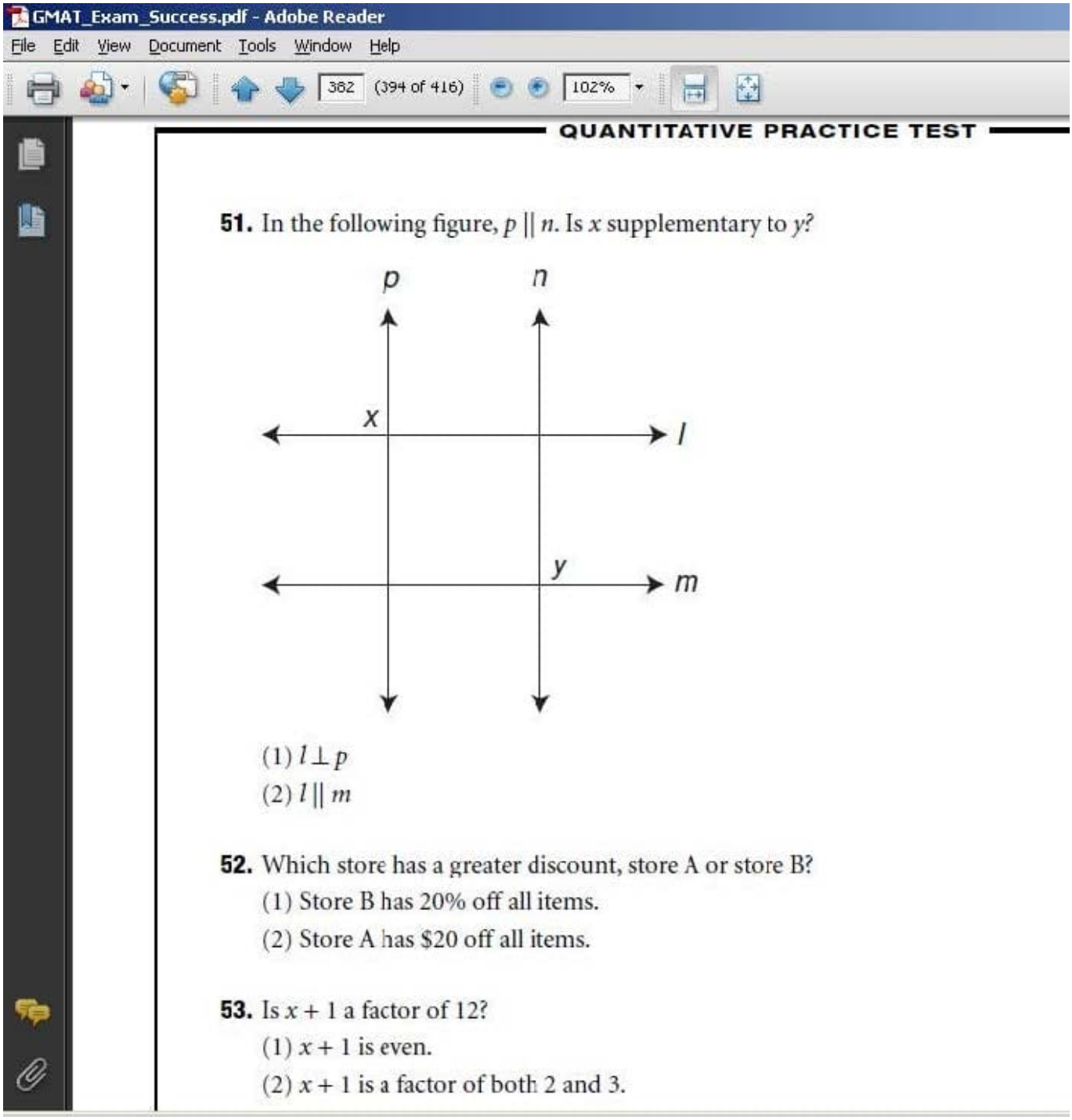
The number of boys is 4 x 4.5 = 18.

The number of girls is 4 x 1.5 = 6.

16.66% out of 18 are 3 boys.

QUESTION 2

In the following figure, p || n. Is x supplementary to y?



(1)

l p

(2)

l || m

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: B

The fact that l is perpendicular to p indicates that angle x is a right angle, but it tells you nothing about angle y. The fact that l is parallel to m in statement (2) is much more useful. Since p is parallel to n, you can use corresponding angles to figure out that y is equal to the angle adjacent to x. Therefore, x and y are supplementary.

QUESTION 3

In a psychology school the grade of the students is determined by the following method: At the end of the first year the grade equals to twice the age of the student. From then on, the grade is determined by twice the age of the student plus half of his grade from the previous year. If Joey\\'s grade at the end of the first year is 40, what will be his grade at the end of the third year?

A. 44.

B. 56.

C. 62.

D. 75.

E. 80.

Correct Answer: D

From the grade 40 at the end of the first year we learn that his age is 20.

At the end of the second year, he will be 21 and his grade will be (21 x 2 + ½ x 40 = 62).

At the end of the third year, he will be 22 and his grade will be (22 x 2 + ½ x 62 = 75). The correct answer

is D.

QUESTION 4

If 4XZ + YW = 3 and XW + YZ = 6, what is the value of the expression

(2X + Y)(2Z + W)?

A. 9.

B. 12.

C. 15.

D. 16.

E. 18.

Correct Answer: C

Explanation: (2X + Y) (2Z + W) = 4XZ + 2XW + 2ZY + WY.

Now, plug in this data to get: 3 + 2 x 6 = 15.

The correct answer is C.

QUESTION 5

352 - 342 =?

A. 35 -34.

B. 35 + 34.

C. 352.

D. 2 x 35 x 34.

E. 34.

Correct Answer: B

352 - 342 = (35 -34)(35 +34) = 1(35 + 34).