PRACTICE TEST IN MATHEMATICS 7

A. Write **EXP** if the given is a mathematical phrase or an algebraic expression and write **EQ** if it is a mathematical sentence or an algebraic equation.

1. $3x - 5$
2. $5x = 13$
3. $5 - 2y = 3y^2$
4. $12ac$
5. $5c + 2c = 7$

B. Determine the property illustrated in each statement.

1. If **b = 6**, and **a + b = 10** , then **a + 6 = 10**.
2. If **a + 7 = 8** , then **b = 8 – 7**.
3. If **m = n** , then **n = m**.
4. If **x = y** , then **bx = by**.
5. If **n = m** , then $\frac{n}{8} = \frac{m}{8}$.

C. Determine the solution of each given equation.

1. $x - 5 = 10$
2. $y + 5 = 2y + 5$
3. $3y + 2 = 2y - 1$
4. $x - 8 = -12$
5. $7x = -28$
6. $3x + 5 = 20$
7. $5x - 2 = 13$

D. Problem Solving

1. John is four years older than Frank, the sum of their ages is 36. Find the ages of John and Frank.
2. Bob has five times as much money as John, and together they have Php 1260. How much money each have?
3. The length of a rectangle is **8 inches** longer than the width. If the perimeter is **32 inches**, find the dimensions of the rectangle.
4. Trisha's scores in her four **15–item quizzes** in mathematics are **11, 12, 10, and 13** respectively. What must be her score on the **5th quiz** to get an average of **12**?
5. Kirt wants to buy a shirt which is regularly priced at **₱200**. The shirt is on sale for **15% off** the regular price. If **s** represents the sale price of the shirt, write an equation that represents the problem.