LINEAR EQUATIONS AND INEQUALITIES



RC#4

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3. The length of a rectangle is equal to triple the width. Which system of equations can be used to find the dimensions of the rectangle if the perimeter is 85 centimeters?

- F. 1 = w + 3 H. 1 = 3w

 2(1 + w) = 85 2(1 + w) = 85
- G. I = 3w
2I + 6w = 85J. I = w + 3
2I + 6w = 85

4. An online digital game and movie company rents video games for \$4.99 and movies for \$2.99. In one hour, the company rented a total of 35 games and movies. If the total rental income for this hour was \$144.65, not including tax, which of the following statements is a reasonable conclusion?

- **F.** The total rental income for movies in this hour was \$99.80, not including tax.
- **G.** There were more movies than video games rented in this hour.
- **H.** There were more video games than movies rented in this hour.
- **J.** The total rental income for video games in this hour was \$74.85, not including tax.

5. In 2004 a married couple could have calculated their estimated income tax, *t*, for that year using the equation t = 0.25c - 6525, in which *c* represents their combined taxable income. If a married couple had a combined taxable income between \$60,000 and \$64,000, which of the following is a reasonable amount for their income tax?

- **F.** \$6,525
- **G.** \$8,975
- **H.** \$13,869
- **J.** \$15,500