

5.16 Equation Applications

Chapter 5: Introduction to Algebra

Name: _____

Date: _____

Class/Period: _____

Problem 5.269 A rectangle's length is 7 cm more than its width. Its perimeter is 62 cm. Find both dimensions.

Problem 5.272 One number is 9 greater than another. Their sum is 41. Find both numbers.

Problem 5.270 The sum of three consecutive integers is 96. Find the integers.

Problem 5.273 A gym charges \$25 plus \$8 per class. A total bill is \$105. Find the number of classes.

Problem 5.271 The sum of three consecutive even integers is 84. Find the integers.

Problem 5.274 Plan A costs $\$10 + \$3h$. Plan B costs $\$22 + \$2h$. Find when the plans cost the same.

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Problem 5.275 A triangle has side lengths $x+2$, $2x-1$, and $2x+5$, and perimeter 56. Find all side lengths and verify that they form a triangle.

Problem 5.278 A number is multiplied by 4 and decreased by 7. The result equals twice the number plus 19. Find the number.

Problem 5.276 A school sold 90 tickets at \$6 and \$9, earning \$660. Find how many \$9 tickets were sold.

Problem 5.279 A rectangular garden's length is twice its width minus 1 meter. Its perimeter is 58 meters. Find its area.

Problem 5.277 Jalen is 5 years younger than Priya. In 3 years their ages will sum to 39. Find their current ages.

Problem 5.280 A total of \$460 consists of \$20 and \$50 gift cards, 14 cards in all. Find the number of each type.