

Algebra

A055-Word Problems: System of Equations



Solve the following.

<p>1. Genna and John are selling candy for school. Customers can buy packages of milk chocolate and packages of dark chocolate. Genna sold 12 packages of milk chocolate and 4 packages of dark chocolate for a total of \$100. John sold 2 packages of milk chocolate and 9 packages of dark chocolate for a total of \$125. How much does one package of milk chocolate cost?</p> <p>A) \$4 C) \$13 B) \$10 D) \$12</p>	<p>6. Jack and Jill each improved their hills by installing guardrails and floodlights. They bought their supplies from the same store. Jack spent \$40 on 4 guardrails and 12 floodlights. Jill spent \$32 on 6 guardrails and 4 floodlights. Find the cost of one guardrail.</p> <p>A) \$4 C) \$1 B) \$2 D) \$3</p>
<p>2. Kevin and Lydia both decided to improve their yards by planting shrubberies and buying garden gnomes. They bought their supplies from the same store. Kevin spent \$160 on 2 shrubberies and 12 garden gnomes. Lydia spent \$240 on 9 shrubberies and 14 garden gnomes. What is the cost of one shrubbery?</p> <p>A) \$12 C) \$8 B) \$16 D) \$2</p>	<p>7. The retirees at Senior Center A and Senior Center B planned separate trips to a school play. The retirees at Senior Center A rented and filled 12 vans and 8 buses with 404 retirees. The retirees at Senior Center B rented and filled 7 vans and 7 buses with 308 retirees. Each van held the same number of retirees. Each bus held the same number of retirees. Find the number retirees in each van.</p> <p>A) 12 C) 13 B) 31 D) 21</p>
<p>3. Marco and Rachel are selling shirts for school. Customers can buy red shirts or blue shirts. Marco sold 14 red shirts and 13 blue shirts for a total of \$498. Rachel sold 12 red shirts and 14 blue shirts for a total of \$484. Find the cost of one red shirt.</p> <p>A) \$20 C) \$17 B) \$22 D) \$21</p>	<p>8. Jenny and Penny are also selling glasses of lemonade. Customers can buy lemonade with extra lemon and lemonade made with mineral water. Jenny sold 8 glasses of extra lemon lemonade and 11 glasses of mineral water lemonade for a total of \$269. Penny sold 6 glasses of extra lemon lemonade and 2 glasses of mineral water lemonade for a total of \$108. Find the cost of one glass of lemonade with extra lemon.</p> <p>A) \$14 C) \$15 B) \$13 D) \$12</p>
<p>4. Kel and Diana are selling glasses of lemonade. Customers can buy a small glass of lemonade and a large glass of lemonade. Kel sold 9 small glasses of lemonade and 10 large glasses of lemonade for a total of \$235. Diana sold 7 small glasses of lemonade and 11 large glasses of lemonade for a total of \$244. Find the cost of one small glass of lemonade.</p> <p>A) \$19 C) \$17 B) \$10 D) \$5</p>	<p>9. Genna decided to sell candy with Serena instead. Customers can buy packages of white chocolate and packages of nougat candy. Genna sold 3 packages of white chocolate and 7 packages of nougat candy for a total of \$161. Serena sold 2 packages of white chocolate and 6 packages of nougat candy for a total of \$134. How much does one package of white chocolate cost?</p> <p>A) \$4 C) \$20 B) \$13 D) \$7</p>

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5. Jonathan and Jacky both improved their aquariums by buying red herrings and decorative rocks. They bought their supplies from the same store. Jonathan spent \$129 on 12 red herrings and 9 decorative rocks. Jacky spent \$113 on 9 red herrings and 10 decorative rocks. Find the cost of one red herring.

- A) \$7 C) \$13
B) \$5 D) \$4

10. Bruce's school is selling tickets to a play. On the first day of the ticket sales, the school sold 11 retiree tickets and 4 student tickets for a total of \$214. The school took in \$280 on the second day by selling 5 retiree tickets and 14 student tickets. Find the price of a retiree ticket.

- A) \$15 C) \$28
B) \$14 D) \$11