

Assignment - Supplemental Problems

Name _____

Date _____ Period _____

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- 1.) Jacob and DeShawn are selling cheesecakes for a school fundraiser. Customers can buy French silk cheesecakes and strawberry cheesecakes. Jacob sold 12 French silk cheesecakes and 5 strawberry cheesecakes for a total of \$105. DeShawn sold 2 French silk cheesecakes and 1 strawberry cheesecake for a total of \$19. Find the cost each of one French silk cheesecake and one strawberry cheesecake.
- 2.) Shreya and Molly each improved their yards by planting rose bushes and geraniums. They bought their supplies from the same store. Shreya spent \$120 on 12 rose bushes and 4 geraniums. Molly spent \$56 on 1 rose bush and 8 geraniums. Find the cost of one rose bush and the cost of one geranium.
- 3.) A right triangle has a base that is seven times greater than its height. The hypotenuse is 50 cm. Solve for the base and height.
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- 4.) The water park is a popular field trip destination. This year the senior class at High School A and the senior class at High School B both planned trips there. The senior class at High School A rented and filled 2 vans and 3 buses with 150 students. High School B rented and filled 12 vans and 8 buses with 440 students. Each van and each bus carried the same number of students. How many students can a van carry? How many students can a bus carry?