

First name: _____ Last name: _____

Student ID: _____

Word Problems 1 Homework

1. How many ways are there to rearrange the letters in word DESIGN?

2. The Cineplex and StarCity cinemas start movies at 7:15 p.m. The movie showing at the Cineplex lasts 2 hours and the movie at the StarCity lasts one hour and 45 minutes. If the movies run continuously, when will the movies start at the same time again?

3. When Bob gives changes, he always gives the least number of coins possible. The last five customers of the day all paid with a one-dollar bill. Ann spent 55¢, Bill spent 62¢, Carl spent 73¢, Donna spent 51¢, and Elaine spent 25¢. Who got the most coins in change from Bob?

4. During the school fair, the student council sold lemonade at 25 cents for each 260 ml glass. Altogether they sold 420 glasses. The lemonade was purchased at a cost of 60 cents per liter from Costco. How much profit did the student council make?

5. Martin purchases 2 apples and 4 oranges. Michelle purchases 8 apples and two oranges. If Michelle pays twice as much as Martin, how many apples can be purchased for the price of nine oranges?

6. From each revenue of \$450 from selling eyeglasses, the salesperson keeps \$45 and gives the remainder to the company. How much was the revenue if the salesperson gives \$1000 to the company?

7. Dolores' children plan to split the cost of a present for their mother equally. If they each contribute \$2.00, there is \$1.00 left over after the present is bought. If they each contribute \$1.50, then they are \$1.00 short of the amount necessary to buy the present. How much does the present cost?

8. To send a package, Turtle Express charges \$1 plus \$0.05 per kilogram and \$0.01 per kilometer. What is the price to send a 9-kilogram package between two cities that is 180 kilometers apart?

9. You own a small video game store. On the first day, you sold 3 copies of A games and 5 copies of B game for a total of \$450. On the second day, you dropped the price of game A by \$20 and you increase the price of game B by \$10, which let to the sale of 5 games A and 4 game B for a total of \$430. What was the price of game A on the second day?

10. A fruit shop sells apples for 5 cents each, oranges for 10 cents each, and bananas for 25 cents each. If you spend exactly 55 cents at the shop, how many combinations of two kinds of fruit can you make?

11. The Shirt Shoppe sells shirts for \$5 each in the morning which the revenue totaled \$300. At noon, the price of the shirt is lowered to \$4 and the Shoppe sold twice as many compared to the morning. What is the total revenue for the day?

12. Lisa puts her spare nickels and dimes in a piggy-bank, and today she decided to count her savings. She finds 72 coins with a total value of \$4.95. How many dimes does she have?

13. Steve wants to rent a car. Hertz charges \$20.25 per day plus 14 cents per kilometer, and Alamo charges \$18.25 per day plus 16 cents per kilometer. How many kilometers does Steve have to travel in order for the rental costs from both companies to be the same for one day?

14. On the first day, Nabil put \$1 in a hat. On each succeeding day, he added twice as much money as he did on the previous day into the hat. On which day will Nabil have more than \$1000 in the hat for the first time?

15. John and Charles buy red and blue ribbons. John buys 10 red and 20 blue and pays \$40; Charles' 10 blue and 20 red ribbons cost \$50. Later they find out that they still need to buy 3 red and 2 blue ribbons additionally. How much did they pay for these five ribbons?