

Card 1

The sum of two digits is 31. Their difference is 9. What are the two numbers?

Card 2

Solve the following system (decimals)

$$0.4x + 1.8y = 8$$

$$1.2x + 3.4y = 16$$

Card 3

Ming and Carlos are selling cookie dough for a school fundraiser. Customers can buy packages of chocolate chip cookie dough and packages of gingerbread cookie dough. Ming sold 8 packages of chocolate chip cookie dough and 12 packages of gingerbread cookie dough for a total of \$364. Carlos sold 1 package of chocolate chip cookie dough and 4 packages of gingerbread cookie dough for a total of \$93. Find the cost each of one package of chocolate chip cookie dough and one package of gingerbread cookie dough.

Card 4

Solve the following problem:

Kim and Jaylen are selling candy for their trip to Paris. The difference between two times Kim's amount and three times Jaylen's amount is \$30. \$3 less than 1/3 of Kim's amount is 2/6 Jaylen's amount. How much has each person made so far?

Does this answer make sense? Why or why not?

Card 5

Clear the fractions and solve

$$x - \frac{2}{9} = \frac{45}{6}$$

Card 6

Mr. and Mrs. Smith are doing their taxes. Both of their annual incomes together is \$72,000. Mrs. Smith makes 3 times as much as Mr. Smith plus an additional \$441. How much does Mrs. Smith make?

Card 7

Clear the decimals and solve

$$0.05x - 0.35 = -2.89$$

Card 8

The school that Lisa goes to is selling tickets to the annual talent show. On the first day of ticket sales the school sold 4 senior citizen tickets and 5 student tickets for a total of \$102. The school took in \$126 on the second day by selling 7 senior citizen tickets and 5 student tickets. What is the price each of one senior citizen ticket and one student ticket?

Card 9

Solve the following system (fractions)

$$\frac{1}{2}x + \frac{4}{3}y = -7$$

$$x - \frac{2}{3}y = -6$$

Card 10

The senior classes at High School A and High School B planned separate trips to the water park. The senior class at High School A rented and filled 14 vans and 16 buses with 1086 students. High School B rented and filled 10 vans and 13 buses with 870 students. Every van had the same number of students in it as did the buses. Find the number of students in each van and in each bus.