Systems of Equations Word Problems

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Solve each word problem.

1) The difference of two numbers is 5. Their sum is 17 . What is the bigger number?

2) Emma and Sepehr are selling Chocolate Chip cookies and Oreo cookies Emma sold 5 boxes of Chocolate Chip cookies and 5 boxes of Oreo cookies for a total of $\$45$. Sepehr sold 4 boxes of Chocolate Chip cookies and 2 boxes of Oreo cookies for a total of $\$28$. Find the cost of one box of Chocolate Chip cookies.

3) A farmhouse shelters 10 animals, some are pigs, and some are ducks. Altogether there are 32 legs. How many pigs are there?

4) A class of 90 students went on a field trip. They took 8 vehicles, some cars and some buses. If each car holds 5 students and each bus hold 15 students, how many buses did they take?

5) Jay has 9 nickels and dimes totaling $\$0.65$. How many nickels does he have?

6) The equations of two lines are $6x + 3y = 33$ and $y = \frac{32 - 5x}{4}$. What is the value of x in the solution for this system of equations?

7) Tickets to a movie cost $\$5$ for adults and $\$4$ for students. A group of friends purchased 10 tickets for $\$45$. How many adults ticket did they buy?

8) The equations of two lines are $7x + 3y = 51$ and $y = \frac{36 - 4x}{4}$. What is the value of x in the solution for this system of equations?

9) A theater is selling tickets for a performance. Mr. Smith purchased 5 senior tickets and 7 child tickets for $\$58$ for his friends and family. Mr. Jackson purchased 7 senior tickets and 6 child tickets for $\$66$. What is the price of a senior ticket?

10) A farmhouse shelters 11 animals, some are pigs, and some are ducks. Altogether there are 34 legs. How many pigs are there?

Answers of Systems of Equations Word Problems

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