Name: _____

Systems of Equations Word Problems

Write a system of equations and solve.

1. Bike Shop A charges $40 plus $16 per hour. Shop B charges $157 plus $7 per hour. After how many hours is the cost the same?

Answer: _____

2. A school sold 33 tickets. Student tickets cost $3 and adult tickets cost $9. It collected $213. How many of each were sold?

Answer: _____

3. A farm has chickens and cows. There are 28 heads and 86 legs. How many of each animal are there?

Answer: _____

4. The sum of two numbers is 54 and their difference is 8. Find the numbers.

Answer: _____

5. Jada has 18 quarters and dimes worth $2.70. How many of each coin does she have?

Answer: _____

6. Bike Shop A charges $44 plus $16 per hour. Shop B charges $110 plus $10 per hour. After how many hours is the cost the same?

Answer: _____

7. A school sold 13 tickets. Student tickets cost $5 and adult tickets cost $8. It collected $80. How many of each were sold?

Answer: _____

8. A farm has chickens and cows. There are 15 heads and 40 legs. How many of each animal are there?

Answer: _____

9. The sum of two numbers is 50 and their difference is 10. Find the numbers.

Answer: _____

10. Jada has 30 quarters and dimes worth $5.85. How many of each coin does she have?

Answer: _____

Name: **ANSWER KEY**

Systems of Equations Word Problems

Write a system of equations and solve.

1. Bike Shop A charges $40 plus $16 per hour. Shop B charges $157 plus $7 per hour. After how many hours is the cost the same?

Answer: 13 hours

2. A school sold 33 tickets. Student tickets cost $3 and adult tickets cost $9. It collected $213. How many of each were sold?

Answer: 14 student, 19 adult

3. A farm has chickens and cows. There are 28 heads and 86 legs. How many of each animal are there?

Answer: 13 chickens, 15 cows

4. The sum of two numbers is 54 and their difference is 8. Find the numbers.

Answer: 31 and 23

5. Jada has 18 quarters and dimes worth $2.70. How many of each coin does she have?

Answer: 6 quarters, 12 dimes

6. Bike Shop A charges $44 plus $16 per hour. Shop B charges $110 plus $10 per hour. After how many hours is the cost the same?

Answer: 11 hours

7. A school sold 13 tickets. Student tickets cost $5 and adult tickets cost $8. It collected $80. How many of each were sold?

Answer: 8 student, 5 adult

8. A farm has chickens and cows. There are 15 heads and 40 legs. How many of each animal are there?

Answer: 10 chickens, 5 cows

9. The sum of two numbers is 50 and their difference is 10. Find the numbers.

Answer: 30 and 20

10. Jada has 30 quarters and dimes worth $5.85. How many of each coin does she have?

Answer: 19 quarters, 11 dimes