

Systems Word Problems Practice 2

Name _____

1. The length of a rectangle is twice the width. Determine the length and width if the perimeter is 96 feet.

Equations:

length:

width:

2. Jordan and his children went into a restaurant and he bought \$26 worth of drinks and tacos. Each drink costs \$2.50 and each taco costs \$2. He bought 4 more tacos than drinks. How many tacos and drinks did he buy?

Equations:

drinks:

tacos:

3. A large pizza at Palanzio's Pizzeria costs \$6.80 plus \$0.90 for each topping. The cost of a large cheese pizza at Guido's Pizza is \$7.30 plus \$0.65 for each topping. How many toppings need to be added to a large cheese pizza from Palanzio's Pizzeria and Guido's Pizza in order for the pizzas to cost the same, not including tax? (hint: Let y be the total cost of a pizza)

Equations:

toppings:

4. Kiran is going to a carnival that has games and rides. Each game costs \$1.50 and each ride costs \$3. Kiran spent \$18 altogether at the carnival and the number of games he played is 4 times the number of rides he went on. How many rides did he go on?

Equations:

rides:

5. Melanie is raising money for a school trip by selling candy bars and bags of chips. The price of each candy bar is \$1.50 and the price of each bag of chips is \$1.25. Yesterday Melanie made \$33.25 and sold 13 more candy bars than bags of chips. Determine the number of candy bars sold and the number of bags of chips sold.

Equations:

Candy bars:

chips:

6. Tyee is working two summer jobs, making \$10 per hour washing cars and \$6 per hour walking dogs. Last week Tyee worked twice as many hours walking dogs as he worked washing cars and earned a total of \$88. How many hours did Tyee work at each job?

Equations:

Washing cars:

Walking dogs:

7. The length of a rectangle is three more than twice the width. If the perimeter is 42, determine the width.

Equations:

width:

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8. Marcos had 15 coins in nickels and quarters. He had 3 more quarters than nickels. How many quarters does he have?

Equations:

quarters:

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9. The sum of two numbers is 20. One number is 6 greater than the other number. What are the numbers?

Equations:

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and

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10. Rick is 10 years older than his brother Jeff. In 4 years, Rick will be twice as old as Jeff. How old are Rick and Jeff?

Equations:

Rick:

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Jeff:

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11. The sum of two numbers is 23. One number is 5 less than the other number. What are the numbers?

Equations:

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and

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12. Fred is 4 years older than Barney. Five years ago, the sum of their ages was 48. How old are Fred and Barney?

Equations:

Fred:

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Barney:

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13. The length of a rectangle is 4 cm less than twice the width. If the length is decreased by 1 cm and the width is increased by 2 cm, the perimeter will be 24 cm. Determine the dimensions of the original rectangle.

Equations:

length:

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width:

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