



Name: _____

Date: _____

Unit 2 – Linear Equation Word Problems

Read each word problem carefully. Write an equation and solve for x . Show your work.

1. Tom has x dollars. He spent 6 dollars on lunch and 4 dollars on a book. His friend gave him \$9. Now he has \$71. How much money did Tom start with?

Equation: _____

Solution: _____

2. A theater sold tickets for a show. Adult tickets cost \$11 each and they sold x adult tickets. They also sold 19 child tickets at \$5 each. They made \$205 in total. How many adult tickets did they sell?

Equation: _____

Solution: _____

3. A bakery makes cookies. They start with x cookies in the morning. They sell 7 cookies in the morning and 10 cookies in the afternoon. Then they bake 9 more cookies. Now they have 153 cookies. How many cookies did they start with?

Equation: _____

Solution: _____

4. Maria saves \$ x per month. She already has \$12 in her savings account. After 43 months of saving, she will have \$228. How much does she save per month?

Equation: _____

Solution: _____



Unit 2 – Linear Equation Word Problems – Answer Key

1. Tom has x dollars. He spent 6 dollars on lunch and 4 dollars on a book. His friend gave him \$9. Now he has \$71. How much money did Tom start with?

Equation: $x - 6 - 4 = 61$

Solution: $x = 71$

2. A theater sold tickets for a show. Adult tickets cost \$11 each and they sold x adult tickets. They also sold 19 child tickets at \$5 each. They made \$205 in total. How many adult tickets did they sell?

Equation: $11x + 19 \cdot 5 = 205$

Solution: $x = 10$

3. A bakery makes cookies. They start with x cookies in the morning. They sell 7 cookies in the morning and 10 cookies in the afternoon. Then they bake 9 more cookies. Now they have 153 cookies. How many cookies did they start with?

Equation: $7x + 10 \cdot 9 = 153$

Solution: $x = 9$

4. Maria saves \$ x per month. She already has \$12 in her savings account. After 43 months of saving, she will have \$228. How much does she save per month?

Equation: $x \cdot 43 + 12 = 228$

Solution: $x = 197$