



Name: _____

Date: _____

Linear Equation Word Problems

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

1. A store had x shirts. On Monday, they sold 40 shirts. On Tuesday, they received a shipment of 22 more shirts. Now they have 148 shirts. How many shirts did they start with?

Equation: _____

Solution: _____

2. A school has x students. 44 students joined the school this year, and 25 students left. Now the school has 41 students. How many students were there originally?

Equation: _____

Solution: _____

3. Maria saves $\$x$ per month. She already has $\$22$ in her savings account. After 41 months of saving, she will have $\$57$. How much does she save per month?

Equation: _____

Solution: _____

4. A store had x shirts. On Monday, they sold 30 shirts. On Tuesday, they received a shipment of 33 more shirts. Now they have 181 shirts. How many shirts did they start with?

Equation: _____

Solution: _____



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Linear Equation Word Problems

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

9. Maria saves \$x per month. She already has \$44 in her savings account. After 18 months of saving, she will have \$57. How much does she save per month?

Equation: _____

Solution: _____

10. A store had x shirts. On Monday, they sold 34 shirts. On Tuesday, they received a shipment of 44 more shirts. Now they have 42 shirts. How many shirts did they start with?

Equation: _____

Solution: _____



Linear Equation Word Problems – Answer Key

1. A store had x shirts. On Monday, they sold 40 shirts. On Tuesday, they received a shipment of 22 more shirts. Now they have 148 shirts. How many shirts did they start with?

Equation: $x - 40 + 22 = 148$

Solution: $x = 166$

2. A school has x students. 44 students joined the school this year, and 25 students left. Now the school has 41 students. How many students were there originally?

Equation: $x - 44 + 25 = 41$

Solution: $x = 60$

3. Maria saves $\$x$ per month. She already has $\$22$ in her savings account. After 41 months of saving, she will have $\$57$. How much does she save per month?

Equation: $x - 22 + 41 = 57$

Solution: $x = 38$

4. A store had x shirts. On Monday, they sold 30 shirts. On Tuesday, they received a shipment of 33 more shirts. Now they have 181 shirts. How many shirts did they start with?

Equation: $x - 30 + 33 = 181$

Solution: $x = 178$



Linear Equation Word Problems – Answer Key

9. Maria saves $\$x$ per month. She already has $\$44$ in her savings account. After 18 months of saving, she will have $\$57$. How much does she save per month?

Equation: $x - 44 + 18 = 57$

Solution: $x = 83$

10. A store had x shirts. On Monday, they sold 34 shirts. On Tuesday, they received a shipment of 44 more shirts. Now they have 42 shirts. How many shirts did they start with?

Equation: $x - 34 + 44 = 42$

Solution: $x = 32$