Name: _____

Linear Equation Word Problems

Write an equation and solve each problem.

Learn: Let x be the unknown. Write an equation from the story, then solve it.

Example: A rectangle's length is 3 more than twice its width. The perimeter is 72. Find the width.

Answer: 11

1. A gym charges a $30 joining fee plus $5 per month. Jo paid $80. How many months did she pay for?

Answer: _____

2. Plan A costs $40 plus $2 per game. Plan B costs $6 per game. After how many games do they cost the same?

Answer: _____

3. Ana has $75 and saves $6 each week. Ben has $43 and saves $10 each week. After how many weeks will they have the same amount?

Answer: _____

4. Three consecutive integers add up to 24. What are they?

Answer: _____

5. A gym charges a $30 joining fee plus $8 per month. Jo paid $54. How many months did she pay for?

Answer: _____

6. Plan A costs $36 plus $2 per game. Plan B costs $6 per game. After how many games do they cost the same?

Answer: _____

7. Ana has $55 and saves $5 each week. Ben has $43 and saves $9 each week. After how many weeks will they have the same amount?

Answer: _____

8. Three consecutive integers add up to 45. What are they?

Answer: _____

Name: **ANSWER KEY**

Linear Equation Word Problems

Write an equation and solve each problem.

Learn: Let x be the unknown. Write an equation from the story, then solve it.

Example: A rectangle's length is 3 more than twice its width. The perimeter is 72. Find the width.

Answer: 11

1. A gym charges a $30 joining fee plus $5 per month. Jo paid $80. How many months did she pay for?

Answer: 10 months

2. Plan A costs $40 plus $2 per game. Plan B costs $6 per game. After how many games do they cost the same?

Answer: 10 games

3. Ana has $75 and saves $6 each week. Ben has $43 and saves $10 each week. After how many weeks will they have the same amount?

Answer: 8 weeks

4. Three consecutive integers add up to 24. What are they?

Answer: 7, 8, 9

5. A gym charges a $30 joining fee plus $8 per month. Jo paid $54. How many months did she pay for?

Answer: 3 months

6. Plan A costs $36 plus $2 per game. Plan B costs $6 per game. After how many games do they cost the same?

Answer: 9 games

7. Ana has $55 and saves $5 each week. Ben has $43 and saves $9 each week. After how many weeks will they have the same amount?

Answer: 3 weeks

8. Three consecutive integers add up to 45. What are they?

Answer: 14, 15, 16