

Translating Word Problems into Linear Equations

1. You plan a party at the Playroom party place. The cost for the party is \$100 plus \$5 per person. Write an equation to show the total cost for the party.

Write the equation.

What is the slope?

What does this slope mean?

What is the y-intercept?

2. A music tutor charges \$50 per hour. She requires that you purchase certain books. The cost for the books total \$25. Write an equation to show the total cost for a tutoring session.

Write the equation.

What is the slope?

What does this slope mean?

What is the y-intercept?

3. Write an equation to show the total cost for a tennis lessons when the instructor charges \$40 per hour. Keep in mind that you must purchase a tennis racquet also. You find one for \$50 at Sports Authority.

Write the equation.

What is the slope?

What does this slope mean?

What is the y-intercept?

4.

The price for an overseas long distance telephone call is \$0.87 for first minute, then \$0.25 for each additional minute. Write an equation to represent the cost of an overseas long distance call.

Write the equation.

What is the slope?

What does this slope mean?

What is the y-intercept?

5.

Kelly owns a small business making cakes. She finds that it costs her \$3.90 per cake. She spent \$300 for start-up materials. Write an equation to show the cost of making cakes for Kelly's business.

Write the equation.

What is the slope?

What does this slope mean?

What is the y-intercept?

6.

Max started a daily i-Tunes club. He charges \$10 to join and \$0.50 per day. Every day each member receives a new song to download. Write an equation to represent Max's income from his club.

Write the equation.

What is the slope?

What does this slope mean?

What is the y-intercept?

7. Six Flags charges \$35 per student plus a \$40 processing fee per group. If you graph this, where would the line cross the y-axis?