

Rate of Change Word Problems

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Chapter 4: Worksheet 7

Level 1 - Find an equation from a simple word problem and evaluate

Level 2 - Find, graph and compare multiple equations from a word problem

Level 1

Find an equation from the word problem and evaluate.

a) A mobile phone company charges a \$25 monthly fee plus \$0.10 per text message sent.

- i) Write an equation to represent the total monthly cost based on the number of text messages sent.**
- ii) If a user sends 150 text messages in a month, how much will they pay?**

Level 2

Find the equations, graph and compare.

a) Two friends are saving money. Alex starts with \$100 and saves \$20 per week. Jordan starts with \$250 but only saves \$10 per week

- i) Write an equation for each friend's total savings over time.**
- ii) Label the axes and graph the two equations below.**
- iii) When will Alex and Jordan have the same amount saved?**
- iv) If they both continue saving at the same rate, who will have more money after 15 weeks, and by how much?**