Name _____ Date _____

Linear Function Word Problems - Independent Practice Worksheet

Complete all the problems.

1. Julia has been measuring the length of her baby's hair. The first time it was 6 cm long and after one month it was 2 cm longer. If the hair continues to grow at this rate, determine the function that represents the hair growth and graph it.

2. Bobby fills a water tank at the rate of 0.12 mL in every minute. Create a hypothetical table of values for time and capacity. Determine the equation that represents the function and state it graphically.

3. When Jacob digs the Earth's temperature rises as he digs deeper. He digs the Earth 5 meters down and the temperature of the material is 8° C. For every 5 meters the temperature rises a constant 8° C. If the temperature continues to rise at this rate, determine the function that represents this relationship and graph it.

4. Daniel fills water bottles at the rate of 2 bottles every minute. Create a hypothetical table of values for time and capacity. Determine the equation that represents the function and state it graphically.

5. William has been measuring his height. The first time he was 5 feet tall and after one year he was 5.1 feet tall. If the height continues to grow at this rate, determine the function that represents his height growth and graph it.

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6. Michael has a big garden. When he measured the height of the tree it was 15 feet tall. After one year it was 16 feet tall. If the tree's height continues to grow at this rate, determine the function that represents the height of the tree and graph it.

7. Emma knits 2.5 cm of a sweater in an hour. Create a hypothetical table of values for time and capacity. Determine the equation that represents the function and state it graphically.

8. When Olivia measured her garden's grass length the first time it was 3 cm long. After one week it was 7 cm. If the length continues to grow at this rate, determine the function that represents the length of the grass growth and graph it.

9. Noah has a puppy. When he measured his puppy hair's length the first time it was 8 cm long. A month passed it was 12 cm long. If the length continues to grow at this rate, determine the function that represents the length of the puppy's hair and graph it.

10. Sophia is making 4 pudding cups in an hour. Create a hypothetical table of values for time and capacity. Determine the equation that represents the function and state it graphically.