

Mid Mod 4 Study Guide

Date _____

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- 1) For a field trip 19 students rode in cars and the rest filled nine buses. How many students were in each bus if 208 students were on the trip?
- 2) Wilbur wanted to make note cards by cutting pieces of paper in half. Before starting he got three more pieces to use. When he was done he had 12 half-pieces of paper. With how many pieces did he start?
- 3) Emily won 101 lollipops playing horseshoes at the county fair. At school she gave three to every student in her math class. She only has 8 remaining. How many students are in her class?
- 4) The sum of three consecutive numbers is 63. What is the smallest of these numbers?
- 5) Ryan rented a bike from Arjun's Bikes. It cost \$12 plus \$7 per hour. If Ryan paid \$26, then he rented the bike for how many hours?
- 6) A wise man once said, "300 reduced by 4 times my age is 40." What is his age?
- 7) Kayla bought a magazine for \$4 and two notepads. She spent a total of \$8. How much did each notepad cost?
- 8) Elisa spent half of her weekly allowance on clothes. To earn more money her parents let her wash the car for \$6. What is her weekly allowance if she ended with \$15?

Without solving, identify whether each of the following equations has a unique solution, no solution, or infinitely many solutions.

9) $-7(x + 7) - 3 = 6x - 39$

10) $-9 - 3x = -3(1 + x)$

11) $8(m - 8) = -32 + 4m$

12) $26 + 8b = -(3b + 7)$

13) $-(-3 - n) = 3 + n$

14) $-(6b - 3) - 7 = -6b - 4$