Name: Date: $\qquad$
Algebra I
Directions: Form let statement(s), set up an equation, and solve algebraically.

1. When one-half of a number is decreased by one-fifth of the number the result is 6 . Find the number.
2. When one-fourth of a number is increased by 5 the result is the same as two-fifths of the number decreased by 4 .
3. Susie received grades of $85,84,92$, and 91 on four math tests. What grade must she obtain on a fifth test to obtain an average of 90 for the five tests?
4. The average of three consecutive odd numbers is 25 . Find the numbers.
5. When one-third of a number is decreased by two, the result is the same as twice the number decreased by 27 . Find the number.
6. When triple a number is decreased by the sum of half a number and eighteen, the result is the same as the number. Find the number.
7. The average of four consecutive integers is 19.5 . Find the integers.
8. One-tenth subtracted from four-fifths of a number is equal to 1.5 . Find the number.
9. The average of three consecutive even integers is nine more than half the first integer. Find the integers.
