

Name: _____

Consecutive integers word problems HW

1. Given two consecutive positive integers, the square of the smaller number minus five times the larger number is 26. What is the sum of the integers?
2. Given two positive consecutive even integers, it turns out the square of the larger minus 10 times the smaller is 76. What is the sum of the integers?
3. If the square of a positive number is decreased by the number, the result is 12. Find the number.
4. If the square of a positive number is decreased by the number the result is 14. Find the number.
5. The sum of the squares of two consecutive positive integers is 41. Find the integers.
6. The sum of the squares of two positive consecutive odd integers is 34. What are the integers?
7. The product of two consecutive integers is 20. Find the integers.
8. The product of two consecutive odd integers is 63. What are the integers?

9. The product of two consecutive even integers is 48. Find the integers.
10. Find three positive consecutive integers such that the square of the first, increased by 2 times the second, is three less than 4 times the third.
11. Find three consecutive odd integers such that the square of the second integer, decreased by 4 times the first integer, is 7 more than 6 times the third integer.
12. One of two positive integers is 5 less than the other. If the product of two integers is 24, find the integers.
13. If one of the two positive integers is 7 less than the other, and the product of the two integers is 78, find the integers.