



# Math Worksheet for 8th Grade

## Equations word problems

Name: \_\_\_\_\_

Due Date: \_\_\_\_\_

Teacher: \_\_\_\_\_

Parent Sign: \_\_\_\_\_

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1. The sum of three consecutive integers is 48. Find the integers.
2. The sum of four consecutive integers is 26. Find the integers.
3. The sum of five consecutive integers is 0. Find the integers.
4. The sum of six consecutive integers is 33. Find the integers.
5. The sum of two consecutive integers is 199. Find the integers.
6. Three consecutive even integers sum to 84. Find the integers.
7. The sum of four consecutive odd integers is 64. Find the integers.
8. The sum of five consecutive even integers is 150. Find the integers.
9. The sum of three consecutive integers is equal to twice the middle integer plus 9. Find the integers.
10. The sum of seven consecutive integers is 0. Find the integers.
11. The sum of five consecutive integers is 95. Find the integers.
12. Three consecutive odd integers sum to 51. Find the integers.
13. Two consecutive even integers sum to 70. Find the integers.
14. The sum of four consecutive integers is 46. Find the integers.
15. Find three consecutive integers whose sum is 15 less than 5 times the largest.
16. The sum of eight consecutive integers is 396. Find the starting integer and the list.
17. A number plus the next four consecutive integers equals 275. Find the numbers.
18. Find five consecutive integers that sum to -20.
19. The sum of four consecutive even integers is 204. Find the integers.
20. The sum of five consecutive odd integers is 165. Find the integers.
21. The sum of three consecutive integers equals the square of the middle integer. Find all such sets of three integers.
22. Find two consecutive integers whose sum equals 3 times the larger minus 4.
23. The sum of six consecutive integers is 123. Find the integers.
24. Three consecutive odd integers sum to 57. Find them.
25. Find the smallest of four consecutive integers whose sum is 70.
26. The sum of seven consecutive even integers is 490. Find the integers.
27. Is it always true that the sum of five consecutive integers equals 5 times the middle integer? Explain by giving an example or counterexample.
28. Find three consecutive integers whose sum equals 99.
29. Express 15 as a sum of consecutive positive integers in as many ways as possible.
30. Can 16 be written as a sum of two or more consecutive positive integers? If so, list ways; if not, explain.
31. Find all sequences of consecutive positive integers that sum to 45.



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32. Write 27 as a sum of two consecutive integers.
33. Find four consecutive integers whose sum is 50.
34. What is the maximum number of consecutive positive integers that can sum to 100? Give the sequence.
35. Express 100 as a sum of consecutive positive integers in all possible ways.
36. Find three consecutive integers such that three times the middle equals the sum of the other two plus 6.
37. Find five consecutive integers whose sum is 5.
38. Can 32 be written as a sum of two or more consecutive positive integers? If yes, list; if no, explain why.
39. A number and the next three consecutive integers have a sum of 46. Find the number.
40. Three consecutive even integers sum to 198. Find them.
41. Find the two consecutive integers whose sum is 101.
42. Determine one way to write 1000 as a sum of consecutive positive integers.
43. How many ways can 45 be written as a sum of two or more consecutive positive integers? List them.
44. Find three consecutive integers such that the sum of the largest and smallest is 26.
45. The sum of five consecutive odd integers is 225. Find the first of those odd integers.
46. A person deposits  $n$  on day 1,  $n+1$  on day 2, ..., up to day 10. If the total deposited in 10 days is \$555, find  $n$ .
47. Find four consecutive even integers that add up to 220.
48. The sum of two consecutive odd integers is 112. Find them.
49. Find five consecutive integers such that the sum of the first three equals the sum of the last two.
50. For  $k = 7$ , find 7 consecutive integers whose sum is  $k^2$  (49).