

1. The sum of two consecutive integers is 57. Find them.
2. The sum of two consecutive integers is 75. Find them.
3. Find three consecutive odd integers whose sum is 57.
4. Find three consecutive odd integers whose sum is 111.
5. Find four consecutive even numbers\* whose sum is 100.
6. Find four consecutive even numbers whose sum is 164.
7. Find three consecutive integers, if the sum of the first and third is 128.
8. Find four consecutive integers, if the sum of the third and fourth is 63.
9. Luke plans to use 60 inches of lumber for four shelves whose lengths are to be a series of consecutive even numbers. How long shall he make each shelf.
10. The sides of a triangle are consecutive integers. If the perimeter of this triangle is 2139 feet, find the length of each side.
11. The smaller of two consecutive even integers is 2 more than twice the larger. Find them.
12. Three times the smaller of two consecutive odd integers is one less twice the larger. What are the values for the integers?
13. Three consecutive even numbers are such that their sum is 24 decreased by twice the third integer. What are values of the integers?
14. The sum of two consecutive integers is 257. Find them.
15. The sum of two consecutive integers is 193. Find them.
16. Find three consecutive even integers whose sum is 126.
17. Find three consecutive odd integers whose sum is 135.
18. Find four consecutive even numbers\* whose sum is 132.
19. Find four consecutive even numbers whose sum is 220.
20. Find three consecutive integers, if the sum of the first and third is 104.
21. Find four consecutive integers, if the sum of the third and fourth is 97.

\*The description "even" implies that the number must be an integer.

22. Forest plans to use 108 inches of lumber for four shelves whose lengths are to be a series of consecutive even numbers. How long shall he make each shelf.
23. The sides of a triangle are consecutive integers. If the perimeter of this triangle is 633 feet, find the length of each side.
24. The smaller of two consecutive even integers is 6 more than twice the larger. Find them.
25. Four times the smaller of two consecutive odd integers is twice the larger. What are the values of the integers?
26. Three consecutive even numbers are such that their sum is 29 decreased by twice the third integer. What are the values of the integers?
27. The larger of two consecutive integers is 5 more than half the smaller. What are the values of the integers?
28. Three consecutive integers are such that the sum of the first and third is 18 increased by twice the second. What are the largest possible values for the integers.

Answers:

1. 28, 29
2. 37, 38
3. 17, 19, 21
4. 35, 37, 39
5. 22, 24, 26, 28
6. 38, 40, 42, 44
7. 63, 64, 65, 66
8. 29, 30, 31, 32
9. 12 in, 14 in, 16 in, 18 in
10. 712 ft, 713 ft, 714 ft
11.  $-6, -4$
12. 3, 5
13. 2, 4, 6
14. 128, 129
15. 96, 97
16. 40, 42, 44
17. 43, 45, 47
18. 30, 32, 34, 36
19. 52, 54, 56, 58
20. 51, 52, 53
21. 46, 47, 48, 49
22. 24 in, 26 in, 28 in, 30 in
23. 210 ft, 211 ft, 212 ft
24.  $-10, -8$
25. impossible
26. impossible
27. 8, 9
28. impossible