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| 1. Find four consecutive even integers such that the sum of the first three exceeds the fourth by 8. |
| 1. The sum of three consecutive natural numbers is 804. Find the numbers. |
| 1. The width of a rectangle is 1 meter more than half the length of the rectangle. If the perimeter of the rectangle is 110 meters, find the width and the length. 2. Two pumps are used to fill a water storage tank at a resort. One pump can fill the tank by itself in 9 hours, and the other can fill it in 6 hours. How long will it take both pumps operating together to fill the tank?  |  |  |  |  | | --- | --- | --- | --- | |  |  |  |  | |  |  |  |  | |  |  |  |  | |

1. A chemical storeroom has an 80% alcohol solution and a 30% alcohol solution. How many milliliters of each should be used to obtain 50 milliliters of a 60% solution?

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1. The cruising speed of an airplane is 150 miles per hour. You plan to hire the plane for a 3-hour sightseeing trip you instruct the pilot to fly north as far as she can and still return to the airport at the end of the allotted time. How far north should the pilot fly if the wind is blowing from the north at 30 miles per hour?

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