

Dr Oliver Mathematics
Worked Examples
Proportion 1

From: O Level, 1957(!)

1. The cost, $\pounds y$, of making a batch of articles depends on x , the number of articles in the batch.

y is the sum of two numbers, one of which varies directly as x and the other inversely as x .

- When the number in the batch is 10, the cost is $\pounds 28$.
 - When the number in the batch is 20, the cost is $\pounds 44$.
- (a) Express y in terms of x .
 - (b) Find the number in the batch when the cost is $\pounds 37$.