## Answer on Question \#43146 - Math - Other

A tradesman fixes his selling price of goods at $30 \%$ above the cost price. He sells half of this stock at this price, one-quarter of his stock at a discount of $15 \%$ on the original selling price, and the rest at a discount of $30 \%$ on the original selling price. Find his gain per cent altogether.

## Answer.

Let x be a cost price. So, tradesman gain:
$x * 0.50 * 1.3+x * 0.25 * 1.3 *(1-0.15)+x * 0.25 * 1.3 *(1-0.30)$ $=1.15375 x$.

His gain per cent equals: $\frac{1.15375 x-x}{x} * 100 \%=15.375 \%$.

