Answer on Question #43144 – Math – Other

How much per cent more than the cost price should a shopkeeper mark his goods so that after allowing a discount of 15% on the marked price, he gains 19%.

Solution.

Let the cost price is x. And the sell price is $a * x$. After allowing a discount of 15% on the marked price the price is $0.85 * a * x$. Since, yet he gains 19%, we get $0.85 * a * x - x = 0.19 * x$. Solving this equation, we get

$$0.85 * a * x - x = 0.19 * x$$

$$0.85 * a - 1 = 0.19$$

$$0.85 * a = 1.19$$

$$a = 1.4$$

Thus, the shopkeeper should mark his goods 40% per cent more than the cost price.

Answer. 40%.