SUPPLEMENT

of brown sugar are required, we must multiply each of these quantities by 12 in order that the gain and loss may be equal. We shall therefore have 12×24 b. = 24 Hz of clarified sugar.

Ex. 5. A grocer wishes to mix 20 lb. sugar worth 9c. per pound and 10 lb. worth 12c. per pound, with clarified sugar worth 15c., so that the compound may sell at 13c. How much of the clarified must be take i

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The value of 1 " of the mixture is, therefore, worth 10c.

How many pounds of charified sugar worth 15c, per pound must be mixed with 30 lb, of another kind of sugar, worth 10e, per pound, so that the mixture may be sold for 13c, per pound 4

The question in this form has already been fully explained.

Ex. 6. A methant has West India sugar worth 8c. per pound, and New Orleans sugar worth 13c. He wishes to combine these so as to make a barrel containing 175 He, which he may sell at 14c. per pound. Hew many pounds of each kind must he take?

Solving the question without reference to the 175 lb, we find that 2 lb. of West India sugar and 3 lb. of New Orleans sugar will form a mixture worth 11c. per pound. Adding these quantities we find that they form a mixture of 5 lb. But the required mixture is to contain 175 lb., or 35 times 5. We shall therefore have

> 35×2 lb. = 70 Hb. West India sugar. 35×3 lb. = 105 lb. New Orleans sugar.