

compound at 56c. per bushel. How many bushels of rye and barley will be required?

11. A confectioner mixes three different qualities of candy worth, respectively, 14c., 18c., and 30c. per pound, so as to make a box of 84 lb. How many pounds of each sort must he take so as to sell the compound at an average price of 24c. per pound?

12. A farmer has three different qualities of wool, worth, respectively, 33c., 37c., and 45c. per pound. He wishes to make up a package amounting to 120 lb., which he can afford to sell at 39c. per pound. How many pounds of each kind must he take?

13. How many sheep worth, respectively, \$1.50, \$2, \$2.75, \$3, and \$4 apiece, can be taken to make a flock of 300 worth \$2.50 apiece?

14. How much tea at 40c. and 50c. per pound must be mixed with 36 lb. at 60c., so that the mixture may be sold at 77c., at a gain of 40%?

15. How much tea at 30c., 35c., 40c., 45c., and 50c. must be taken to form a mixture of 100 lb. at 56c., so as to gain $33\frac{1}{3}\%$?

16. A farmer wishes to mix corn worth 70c. per bushel with rye worth 75c., barley worth 60c., and oats worth 45c., to make a mixture of 60 bu., which he may sell at 78c. per bushel, at a gain of 20%. How many bushels of each kind must he take?

17. If 16 gal. of spirits at \$1.25 per gallon are mixed with 9 gal. at a different price, and 25% is gained by selling a gallon of the mixture at \$1.67 $\frac{1}{2}$, what is the price of the second kind of spirits per gallon?

18. A man paid \$165 to 55 laborers, consisting of men, women and boys. To the men he paid \$5 per week, to the women \$1 per week, and to the boys \$ $\frac{1}{2}$ per week. How many were there of each?