

## ARTICLE 122.

### Complex Fractions.

1. If the multiplicand is  $6\frac{3}{4}$ , and the product  $4\frac{4}{5}$ , what is the multiplier?
2. The quotient is  $31\frac{1}{4}$ , and the dividend 195. What is the divisor?
3. The product is  $99\frac{9}{10}$ , and the multiplier  $101\frac{1}{4}$ . What is the multiplicand?
4. The dividend is  $67\frac{1}{5}$ , and the divisor  $\frac{1}{2}\frac{6}{5}$ . What is the quotient?
5. A farmer having a crop of wheat worth  $\$493\frac{1}{2}$ , sold a part of it for  $\$263\frac{1}{5}$ . What part of the crop did he sell?
6. A and B bought a barrel of cider for  $\$5\frac{3}{5}$ . A paid  $\$3\frac{1}{2}$ , B the remainder. What part of the cider should each take?
7. Paid  $\$33\frac{3}{4}$  for cloth, at  $\$3\frac{3}{5}$  a yard. How many yards did I buy?
8. Bought  $12\frac{3}{8}$  cords of wood for  $\$58\frac{1}{2}$ . What was the price per cord?
9.  $15\frac{5}{8}$  tons of anthracite coal cost  $\$106\frac{1}{4}$ . How many tons would cost  $\$85$ ?
10. Owing  $56\frac{1}{4}$  acres of land, I sold  $\frac{1}{2}\frac{2}{5}$  of it for  $\$1350$ . What was the price per acre?
11. A jeweler paid  $\$158\frac{2}{5}$  for gold, at  $\$1\frac{1}{10}$  a penny-weight, which he made into rings weighing  $4\frac{1}{2}$  pwt. each. How many rings did he make?

12. Paid  $\$65\frac{1}{4}$  for sheep, at  $\$3\frac{5}{8}$  each. At that rate how many could be bought for  $\$362\frac{1}{2}$ ?

13. A farmer sold  $\frac{4}{5}$  of  $8\frac{7}{16}$  cords of wood for  $\frac{8}{15}$  of  $\$60\frac{3}{4}$ . What was the price per cord?

14. Paid  $\$110$  for  $45\frac{5}{8}$  bl. of apples, and sold  $22\frac{1}{2}$  bl. for  $\$50$ . Find my loss by the sale?

15. A lady paid  $\$62$  for carpeting, at  $\$1\frac{3}{8}$  per yard. Had she paid  $\$72$ , how many yards would she have received?

16. Owning  $\frac{9}{16}$  of a farm worth  $\$4500$ , what part of my share should I sell for  $\$1620$ ?

17. Paid  $\$2\frac{2}{5}$  a box for lemons, but sold them at  $\frac{7}{8}$  of the cost. How many boxes were sold for  $\$42$ ?

18. If  $15\frac{5}{8}$  gal. of wine cost  $\$33\frac{3}{4}$ , how many gallons would cost  $\$162$ ?

19. A and B built a fence for  $\$20\frac{2}{5}$ . A worked  $3\frac{3}{4}$  days and built  $12\frac{1}{2}$  rods. B worked as many days as A built rods per day. What should each receive?

20.  $\frac{5}{6}$  of  $\frac{19\frac{1}{5}}{28\frac{8}{9}}$  divided by  $\frac{8}{5}$  of  $\frac{20\frac{4}{9}}{17\frac{8}{9}} =$  what?

## ANSWERS.

### ARTICLE 122.

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|--------------------------------------|-----------------------|---------------------------|
| 1. $\frac{82}{45}$                   | 8. $\$4\frac{4}{5}$   | 15. 45 yds.               |
| 2. $6\frac{6}{25}$                   | 9. $12\frac{1}{2}$ T. | 16. $\frac{16}{25}$       |
| 3. $7\frac{4}{5}$                    | 10. $\$50$            | 17. 20 boxes.             |
| 4. $93\frac{1}{8}$                   | 11. 32 rings.         | 18. 75 gal.               |
| 5. $\frac{8}{15}$                    | 12. 100 sheep.        | 19. A $\$10\frac{4}{5}$ ; |
| 6. A $\frac{5}{8}$ ; B $\frac{3}{8}$ | 13. $\$4\frac{4}{5}$  | B $\$9\frac{3}{8}$        |
| 7. $9\frac{3}{8}$ yds.               | 14. $\$4$ .           | 20. $\frac{3}{4}$         |