

4. What will a bill for £1867 16 8 sterling cost in New York, exchange at 172 per cent? Ans. \$10456.16½.

5. If gold is quoted in New York at 60 per cent premium, what is the rate of exchange between that place and London, and what is the value of £180 stg. Ans. Rate of exchange, 74½ per cent. prem.
Value, \$1395.20.

ART. 249. PAGE 283.

1. A merchant in Boston bought a bill of exchange on Liverpool, G. B., for \$1987, at 65 per cent. prem.; for what amount was the bill drawn? Ans. £270 19 1.

2. A commission merchant in Halifax sold goods for a London firm to the amount of \$1052.63; for what amount sterling should a bill be drawn, allowing himself 5 per cent. commission on the sales, exchange being 13½ per cent. prem.? Ans. £208 13 5½.

3. What is the value in Dublin of \$1896.25 U. States currency, exchanged at 160 per cent.? Ans. £266 13 2½.

4. London remits to Quebec £4590 0 0 stg.; what must be received for it, exchange at 13 per cent.? Ans. \$23052.00.

ART. 250. PAGE 284.

1. What will a bill for £189 stg. cost at 22½ per cent. premium?

Ans. £231 1 0½.

2. When exchange on England is quoted at 120½ per cent., what is the value of a bill for £489 10 stg.? Ans. £589 16 11½.

3. A merchant in Newfoundland wishes to get a bill on Liverpool, G. B., for £189 16 8. currency; for what amount sterling is the bill drawn, exchange at 21½ per cent.? Ans. £155 18 0½.

ART. 251. PAGE 285.

1. If exchange between London and Hamburg is £1 for 13 marks 14 schillings, and between Hamburg and Paris 100 marks for 186 francs 4 centimes, how many francs in Paris through Hamburg is worth £1 in London, one mark being equal to 16 schillings? Ans. 25 francs 82 cent.

2. If exchange between London and Paris is 28 francs per pound, stg., and between Paris and Boston 18 cents per franc, what is the rate of exchange between Boston and London through Paris?

Ans. \$5.04 per £1 stg.

INVOLUTION. — ART. 253. PAGE 287.

Involve the following numbers to the powers denoted by their respective indices:

1. 36².	Ans.	1296.	7. ($\frac{81}{144}$)².	Ans.	$\frac{6561}{20736}$.
2. 148³.	"	3241792.	8. ($\frac{8}{9}$)⁸.	"	$\frac{690826}{43046721}$.
3. 296⁴.	"	7676563456.	9. 1.9³.	"	8.
4. .0067⁴.			10. 26.1⁴.	Ans.	46407.0641.
	Ans.	.0000000020151121.	11. 11.1⁵.	"	168505.81551.
5. .16⁴.	Ans.	.0007716+.	12. .10³.		.00000001.
6. .3³.	"	.00015241+.			