on of £30 interest?

ty of £30 apple inter-

able quarfor £263 pension?

14 years 17s. 4d. and inter-£6 13s.

a, amount? Ans.

for 19 £1861

nt. comd. ready

ased for er cent?

£80 to then to terest?

\$1500 =30000

- (68) What is the annual rental of a freehold estate purchased for £3000 when the rate of interest is at 4 per cent? Ans. A=£120.
- (69) If a perpetuity of £563 can be purchased for £11260 ready money, what is the rate of interest allowed? Ans. r=5 per cent.
- (70) A freehold estate producing £75 per annum, is mortgaged for the period of 14 years; what is its present value reckoning compound interest, at 4 per cent? Ans. v=£1082 15s. 4d.

MENSURATION.

- (71) How many acres are there in a square field whose side is 809 links? Ans. A=6 acres, 2 roods, 7 poles.
- (72) What is the side of a square whose area is 3025 yards?

 Ans. s=55 yards.
- (73) What is the area of a square room whose diagonal is 31 feet? Ans. A=480; feet.
- (74) Required the diagonal of a square table whose area is 16 square feet? Ans. d=5.65685 feet.
- (75) Find the number of square inches in a sheet of paper whose length is 11 inches and breadth 8½ inches. Ans. A—931. inches.
- (76) If the area of a rectangle, whose perpendicular is 11 yards, be 2112 yards, how long is its base? Ans. b=192 yards.
- (77) The area of a rectangular pond is 43750 square yards, one side is 350 yards, what is the length of the other? Ans. P=125 yards.
- (78) Find the area of a rectangle whose base is 21 and diagonal 35 yards. Ans. A=588 yards.
- (79) Find the area of a parallelogram whose base=90, and perpendicular height=12½ feet. Ans. A=1125 feet.
- (80) Required the area of a triangle whose base=81 feet, and altitude 46 feet. Ans. A=1863 feet.