

**QUEEN'S COLLEGE, CORK.**  
**AGRICULTURAL SCHOLARSHIPS OF FIRST YEAR**  
**ARITHMETIC AND MENSURATION**

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1. If 290 sheep cost £338 6s. 8d., what will be the price of a score at the same rate?
2. An estate produces £840 per annum, and the land tax payable thereon is 3s. 6d. in the pound; find the clear annual value of the estate, supposing that there is no other deduction than the above?
3. Required the price of 3 tons 12 cwts. 2 qrs, when 5 cwts. 20 lbs. are purchased for £4 7s. 9½d.
4. A person sells, for 6s. 10½d., an article which he purchased for 6s. 1¼d.; find the gain, per cent.
5. Reduce to its lowest terms the fraction  $\frac{19527}{23667}$ .
7. Express the value of .784529 of an acre in roods, perches, and square yards.
8. Find the side of a square whose area is  $156\frac{1}{4}$  square yards.
9. Find in acres, roods, and perches, the area of a triangular field, whose sides are 2,600, 2,400, and 1,000 links, respectively.
10. If an imperial gallon contain 277,274 inches, how many gallons will be contained in a cistern whose length is 9 feet 6 inches, and depth 2 feet 9 inches?
11. The area of a circle is 3·1316 square feet; find the length of its circumference.

GEORGE BOOLE, *Professor.*

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From the *Digitisation of Parliamentary Papers relating to Ireland* (EPPI) at the University of Southampton: Approximately 15,000 Parliamentary Papers from the period 1801 to 1922.

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*Arithmetic and Mensuration.*

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11. The area of a circle is 3.1416 square feet; find the length of its circumference.

GEORGE BOOLE, *Professor.*

Transcribed and re-typeset by the  
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