

COMMON EXAMINATION FOR
ENTRANCE TO PUBLIC SCHOOLS.

SUBJECT.—**ARITHMETIC.**

[60 minutes.]

[All necessary written work must be shewn up with the answers.]

I. Multiply £14. 13s. 4½d. by 132.

II. Express $\frac{17}{125}$ as a decimal.

III. Multiply 42·6 by 0·075.

IV. Express £2. 17s. 7½d. as a decimal of a pound.

V. Simplify $\frac{2}{3} + 1\frac{7}{12} - 2\frac{1}{6}$.

VI. There are 160 grams of pure radium in the world ; what is the value of this at £28 per milligram ?

VII. Postage stamps are printed in sheets of 480 stamps ; and in one year the following quantities are printed :—

2d. stamps	...	4,800,000 sheets.
1½d. „	...	800,000 sheets.
1d. „	...	3,600,000 sheets.
½d. „	...	800,000 sheets.

What is the total value of all these stamps ?

VIII. I want to make a box to hold 231 wooden bricks, each being a cubic inch. If the box is to be 3 inches deep (measured inside), and the length and breadth are each to be greater than the depth, what is the length and width (measured inside) ? What is the outside measurement of the length, if the wood is $\frac{5}{8}$ inch thick ?

If the four sides are to be cut from a single long piece of wood dovetailed together at the corners, how long must this strip be ?

IX. Find the simple interest on £479. 15s. for $3\frac{1}{2}$ years at $4\frac{3}{4}$ per cent.