

COMMON EXAMINATION FOR
ENTRANCE TO PUBLIC SCHOOLS.

SUBJECT—ARITHMETIC.

[45 minutes.]

[N.B.—All boys MUST do A before going on to B, but are recommended to do as much of B as they can.]

A.

I. Divide £73. 2s. 6d. by 45.

II. Express 4cwt. 3qr. 13lb. in lb.

III. (i) Multiply 0·0708 by 92·5.

(ii) Divide 31·11 by 0·305.

IV. Simplify :—

$$2\frac{1}{4} - 1\frac{4}{7} + \frac{1}{7} \div (\frac{1}{4} - \frac{1}{7}).$$

V. Express £1·839 in £ s. d. correct to the nearest farthing.

VI. $2\frac{1}{4}$ yards of stair carpet cost £1. 13s. ; find the cost of $5\frac{1}{2}$ yards of the carpet at the same rate.

B.

[Begin a new sheet.]

VII. (i) Find the value of $3\frac{1}{2}$ per cent. of £1250.

(ii) A dealer buys a camera for £3. 10s. and sells it for £5 1s. 6d. Find his gain per cent.

VIII. Find the cost of the material for a carpet 18 feet long, $12\frac{1}{2}$ feet wide, if the carpet is sold in a roll, 30 inches wide, at 9s. per yard length.

IX. Given that 1 yard = 0·9144 metres, express 1ft. 9in. in centimetres, correct to three significant figures.

X. What is the volume of metal in a pipe 10 feet long, external diameter 4 inches and 0·5 inches thick?

[Take $\pi = \frac{22}{7}$.]

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