

the bottom of the ditch is 2 ft. below the top of the lawn. Find the width of the ditch.

Ans. 2 ft.

22. A tank whose length is the same as its breadth is 14 ft. deep, and holds water sufficient to form when frozen a sheet of ice $\frac{7}{8}$ in. thick over the surface of a skating rink 240 ft. long by 198 ft. wide. Supposing water to expand uniformly one-tenth of its own volume in freezing, find the length and breadth of the tank.

Ans. 15 ft.

23. A pile of wood is 10 ft. high and 4 ft. wide, and covers $1\frac{1}{2}$ acres of ground. Find its length in yards; and the number of cords it contains. *Ans.* 5808 yds.; 5445 cords.

24. A grain of gold beats out into a leaf of 54 sq. in. Suppose a cub. ft. of gold to weigh 1216 lbs. Avoir., find how many leaves placed together are as thick as one sheet of paper, when 175 sheets of paper placed together are one inch high.

Ans. 1520.

25. A square yard contains $2\frac{1}{2}$ acres. Find the cost of enclosing it with a picket fence built on the following plan: The posts are to be placed 6 ft. apart, two scantling, 2 in. by 4 in., are to be used as supports for the pickets; the pickets are to be 5 ft. long and 3 in. wide, and placed 3 in. apart, resting on a bottom board 12 in. wide. Posts are worth \$8 per C.; lumber, \$14 per M., and labour $\frac{1}{2}$ as much as the material. *Ans.*

CLASSICS.

G. H. ROBINSON, M.A., TORONTO, EDITOR.

UNIVERSITY OF TORONTO. SUPPLEMENTARY EXAMINATIONS, 1883.

Junior Matriculation.

GREEK.

Examiner—William Dale, M.A.

Translate:

I.

Ἐγὼ ὦ Τισσαφέρην, . . . κρατοῦσι.

—*Xenophon, Anabasis, II., c. 5.*

1. Parse αἰσθῆσθαι, φοβηθέντες, φθάσαι, ἀποδραίη.

2. ὀρῶ. Write out fully the imperfect and future tenses ind. act. of this verb.

II.

Translate:

“Τέκνον, . . . ἀολλίσασα γεραίās.

—*Iliad, VI.*

1. Parse ἀνῆκεν, ἐνείκω, ὀνήσεται, πιησθα, κεκμηῶτι.

2. Point out the Epic forms in the nine first lines, and give the corresponding Attic forms.

3. Decline fully νῆες, ἄστυ, μένος.

4. Give an account of the Digamma, and point out instances of its use in the present passage.

Senior Matriculation and First Examination.

I.

Translate:

Ἦ δὲ ἀμείβετο . . . προσχωρήσουσι.

—*Herodotus, VII., c. 235.*

1. Parse ἀποστείλειας, ἀλυσκομένης, συνομοσάντων.

2. Give some account of the speaker.

3. Κύθηρα. Decline.

4. Point out the Ionic forms in the passage, and give the corresponding Attic forms.

II.

Translate:

Ὡς οἱ μὲν . . . ξείνια θείω.

—*Iliad, XVIII., 368-387.*

1. Parse οὔατα, ἰδυήσιν, προμολούσα, θείω.

2. Derive δαιδάλεα, πραπίδεςσιν, θαμί-
ξεις, ἀμφιγυήεις.

3. Translate:

Θῆκεν ἐν ἀκροθέτῳ μέγαν ἄκμονα, γέντο
δὲ χειρὶ

Ῥαιστῆρα κρατερὴν, ἐτέρηφι δὲ γέντο
πυράγρην.

—*Ib., 476-477.*

4. Parse and explain the form γέντο.

HONORS.

I.

Translate:

ἕως οὖν . . . δίκην ὑποσχέιν.

—*Demosthenes, Phil., II.*