Correct solutious have been received as follows : No. 50, Robort Palmer, Uxbridge; C. H. Swetman, Bloomfield; Wm. E. Gifford, Wheatley; Charlotte Shannon, John Milroy, Christiann McArthur, Jano M. McKenzie, Katie E. McIntyre, Rebecca McKenzie, North Dumfries.
No. 53, Wm. J. Jordan, Kettleby; Thos. Porter,

No. 50, 51, B. P. Richardson, Uxbridge; Sarah Ann Gammon, Forest; Joseph C. Manuel, Nanticoke; James D. Graham, Lakehurst; Jennie Moffatt, North Dumfries.

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No. 50, 53, J. H. S., St. Thomas.
No. 50, 51, 53, T. L. Fowler, Kellerby; Geo. B. Boggs, Marsville; S. A. Thompson, Walpole; J. A. McEwan, Glensandfield; Ellen J. Campbell, St. Helens; John Stilwell, Cheapside.

No. 50, 51, 54, Thos. J. C., Bowmanville; Addie Watson, S. S. No. 1, Toronto Township; Thomas Porter, Jarvis; Robert John, Fallis; Thomas Hammond, Selkirk; Simcon Hicks, Courtland; W. A. J., Brentwood; E. Higley, Rodney; J. Doupe, Kirkton; Jas. E. Thompson, Newtonville.

No. 50. 51, 53, 54, R. D. Cameron, Lucknow;

John C. Reid, Vanatter; John Anderson, Dixie; Alex. Cameron, Islay; Thomas Woodburne, Denfield; W. Bickell, Clyde; Ella C. Price, Newburg; Width 26 feet. Floor has an area of 26x13 sq. Emma C. Henry, Selkirk; Wm. Scott, Haysville; feet. Yards of carpet required = 26x13 ÷ 2 J = Thos. S. Menarcy, Egmondville; J. P. Bowerman, Thos. S. Menarey, Egmondville; J. P. Bowerman, Bloomfield; Thomas McCarthy, Downeyville; Jas. R. Bell, Fergus; A. Gilbert, Derwent; John S. Campbell, Allan Park; Henry Rowe, Clark Union; Edward W. Bruce, Bluevale; Thos. Cameron, Arkona; G. W. Priest, Ayr; Jno. M. Morris, Warwick; Allau F. Pringle, North Dumfries.

No. 50, 51, 52, 53, 54, Jas. W. Morgan, St. Helens; P. G. Kimmerly, Napance; F. W. M., Port Dover, James Addison, Kirkwall, E. L. Bur.

Port Dover; James Addison, Kirkwall; F. L Bur-clon, Sutherland's Corners; Joseph Richardson, Innerkip; Wm. Moir, Fergus; No Name; C. S. Falconer, Byron; D. R. Erb, Haysville.

Trial Examination Paper.

ANSWERS TO PROBLEMS IN ARITHMETIC IN JANUARY NO. FOR SECOND CLASS CANDIDATES.

I. The difference between the interest and discount on any sum is the interest on the true discount

. \$5.871 is the amount of the true discount for 2 years at 7%. \$117\frac{1}{2} is the amount of \$100 at given time and rate.

II. A profit of 25% on $\frac{2}{3} - 10\%$ on the whole. A loss of \$15 on the rest cancels this gain and causes a loss of 5% in addition.

... 15% of cost=\$ 15, 1% " = 1, 100% or cost = 100. No. of yards = $$100 \div $2.50 = 40$.

III. This question should read—"A, B, C and D do a piece of work," &c.

A do s fr, B dors fr, C and D do the rest or fr.

D does 3 of fr, C does 3 of fr or 14, and receives 14 of \$16.50 or \$5.621.

IV. \$2500 worth of goods sold at 15% profit will realize \$2875. If 15c per yard will realize 115%, on cost price, 17½c per yard will realize 134½%, which is 3354½. Total profit = (2875 + 3354½ - 5000) = \$1229½.

V. Leaving out the \$1500 worth already sold, the intended profit is 16% on \$3500 or \$560.

On \$2500 he must gain \$560 2500 $\frac{560 \times 100}{2500}$ or $223^{\circ}/_{\circ}$. On \$100

VI. Fast train runs 140 miles in 5° urs and 56 miles in 2 hours. Difference - (140-2) = 84 mls., which is the distance run by slow train in 7 hrs. . . rate is 12 miles per hour. Distance of station is $(23+12) \times 2$ or 80 miles east of London.

VII. 3 of the mixture consists of wine. leave only half wine we must draw off

3-4 or 1 10 of a hhd, of wine. This is do of 3 or the whole quantity of wine; hence d of the whole mixture must be drawn off, which is 101 gallons.

VIII. Assuming the year to consist of 12 mos. of 30 days each.

Int. for 12 months = 6 = ĭ°′°

which is exactly one cent on the dollar.

IX. 143 yards of paper cover 856 square feet. Perimeter of room =856 ÷ 11 = 76 feet.

Breadth of room = 76 ÷ 6=13 feet; and Width 26 feet. Floor has an area of 26x13 sq. 50 💤 yards.

X. Cubical diagonal - VLeugth + width + depth 1 that is $15^2 = \sqrt{144 + 45 + \text{depth}^2}$, whence depth - V 36 or 6 feet. Contents if cistern - 12 × 3 V5×6 cubic fect, weighing 30 tons 3 cwt. 45 lb. A cubic foot of water weighs just half of 394 V 5

We have received correct solutions from the following correspondents

Emma C. Urmy, Selkirk, all but No. 10; W. Bickell, Clyde, all but No. 3: Thomas Hammond, Selkirk, all but No. 10; J. M. Morris, Warwick, Markit, an out No. 10; — Moir, Fergus, all but 9, 10; W.A. Jones, Brentwood, 1, 2, 5, 6, 8; Henry W. Hoover, Selkirk, all but 4, 10; George Harrisen, Selkirk, all but No. 10; Annie Wilson, Selkirk, 1, 4, 5, 6, 8; Maggie Blair, Komoka, 1, 2, 4, 5, 9.

In answers to the First Class Arithmetic Paper given in February No., the denominator of the fraction given as answer to question 7 (c) should be 3rd root of (1387.431)2.

English Department.

J. G. HANDS, EDITOR, 76 CARTWRIGHT St., LONDON.

Subscribers are cordially invited to co-operate with the Editor in making this Department as interesting as possible by freely discussing the points raised by enquiring corres

og frett discussing the points raises by englishing correspondents.

Questions are invited bearing on the subjects of Grammar,
English Literature, Etymology, dee; but they must be of such
a character as to be interesting to subscribers generally.

Matter for this Department must be addressed to the Editor
as above not later than the 15th of the month previous to that

in which it is expected to appear.

Answers to queries, &c., will be inverted in the second number following that in which they appear.

Queries.

Proposed by A. Stevenson, Markham.

(a) Is there a Potential Mood, proper, in the English Verb? and-

(b) Is there any Case, proper, in English Nouns?