

ARITHMETIC

Tuesday, June 18, 1912—9.15 a. m. to 12.15 p. m., only

Write at top of first page of answer paper (a) name of school where you have studied, (b) grade of work completed in arithmetic.

The minimum requirement is the completion of the work of the seventh grade in arithmetic, as outlined in the 1910 syllabus for elementary schools.

Answer question 1 and nine other questions. No credit will be allowed unless all operations (except mental ones) necessary to find results are given; simply indicating the operations is not sufficient. Reduce each result to its simplest form and mark each answer Ans.

- 1 See separate sheet.
- 2 Define (a) dividend, (b) divisor. Write the following tables:
(a) square measure, (b) avoirdupois weight, (c) dry measure.
- 3 Perform each of the following operations:

<i>a</i> $196\frac{2}{3} - 16\frac{1}{3}$	<i>d</i> 95.5×8.4
<i>b</i> $1400 \div 16\frac{2}{3}$	<i>e</i> $425.5 \div .05$
<i>c</i> $125 - 25.0125$	

[Two credits will be given for each correct answer.]

4 A lady made purchases as follows: 5 pecks potatoes at \$.35 per peck; $\frac{1}{2}$ dozen eggs at \$.38 per dozen; $2\frac{1}{2}$ lb meat at \$.18 per lb; 2 dozen oranges at \$.30 per dozen. She gave a five dollar bill in payment. What change should she receive?

5 If three men can do a piece of work in $9\frac{1}{2}$ days, how long will it take 10 men to do the same work?

6 Divide the product of

$$24 \times 18 \times 36 \times 17 \times 57 \text{ by } 12 \times 34 \times 19 \times 54 \times 9$$

[Solve by cancelation.]

7 Find the total cost of the following loads of coal at \$6.25 per ton: 3849 lb, 2935 lb, 4832 lb, 2364 lb, 2837 lb, 4378 lb, 1352 lb.

8 Find the area of a circle whose circumference is 50.2656 feet.

9 The shorter side of a rectangular field is 30 rd, the diagonal is 50 rd; find in acres the area of the field.

10 A man bought a horse for \$175 and sold it for \$210; what was his per cent of gain in this transaction?

11 How much interest, at 6%, is due today, June 18, 1912, on a note for \$250, given June 15, 1910?

12 What per cent is realized from an investment of 6% stock at $119\frac{1}{2}$, brokerage $\frac{1}{8}$ %?

NAME OF SCHOOL

12

NAME OF CANDIDATE

Fill above blanks before signal to turn paper is given by examiner.

Do not turn this sheet over till the signal is given.

Examiner will place test face down on desk of each candidate. Candidate will turn the sheet and begin solving the examples at signal from the examiner, placing all the work and the results on the sheet. All problems must be solved. At end of 15 minutes work must stop and all papers must be collected.

Five credits will be allowed for a , two for b and three for c . No credit will be allowed unless the answer is correct and all work is given.

ARITHMETIC COMPUTATION TEST

[Fifteen minutes allowed for this question]

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1 *a* Add

2 5 4 7 2

3 8 9 5 4

3 6 9 4 2

8 3 5 6 9

1 9 7 8 3

9 2 9 5 8

4 6 3 2 9

9 1 8 6 2

9 3 9 9 8

4 7 8 3 9

5 9 4 8 9

7 9 9 3 7

4 6 9 9 5

8 8 9 3 7

2 8 3 9 7

2 9 8 4 9

b Subtract

3 8 6 9 0 0 1

2 5 7 4 9 8 7

c Divide

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