

THE

REGENTS' QUESTIONS.

ARITHMETIC.

Examination I. Nov. 8, 1866.

1. Write in figures each of the following numbers, add them, and express in words (or numerate) their sum: fifty-six thousand, and fourteen thousandths; nineteen, and nineteen hundredths; fifty-seven, and forty-eight ten-thousandths; twenty-three thousand five, and four tenths; and fourteen millionths.

2. What is the difference between $3\frac{6}{4}$ plus $7\frac{6}{5}$, and 4 plus $2\frac{6}{4}$?

3. In multiplying by more than one figure, where is the first figure in each partial product written, and why is it so written?

4. If the divisor is 19, the quotient 37, and the remainder 11, what is the dividend?

5. What is the quotient of 65 bu. 1 pk. 3 qt. divided by 12?

6. Which one of the fundamental operations (or ground rules) of arithmetic is employed in reduction descending? Give an example.

7. In exchanging gold dust for cotton, by what weight would each be weighed?

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8. What is the only even prime number?

9. How many weeks in 8,568,456 minutes?

10. To what *term* in division does the *value* of a common fraction correspond?

11. What is the product of a fraction multiplied by its denominator? Give an example.

12. What is the rule for the multiplication of decimals?

13. How is a common fraction reduced to a decimal? Give an example.

14. What is *ratio* and how may it be expressed? Illustrate by an example.

15. If 27 tons, 3 qr. 15 lb. of coal cost \$217.83, what will 119 tons 1 qr. 10 lb. cost?

16. Find the cost of the several articles, and the amount of the following bill:

UTICA, Oct. 1, 1866.

S

A. P. JEWETT to SAMUEL PALMER, Dr.

To	16,750	feet	of board	at	\$12.50	per	М.,	
66	1,750	66	6 6		24.00	-	66	
66	3,500	66	6 6		25.00		66	

Received payment,

SAMUEL PALMER.

17. What is the length of the side of a cubical box which contains 389,017 solid inches?

18. What is the present worth of the following note discounted at bank, and when will it become due:—

\$100. ALBANY, October 11, 1866.

Ninety days from date, for value received, I promise to pay to the order of John Smith, one hundred dollars, at the Albany City National Bank. JOHN BROWN. 19. Involve § to the 7th power.

20. What is the square root of .0043046721?

21. Sold $9\frac{1}{5}$ cwt. of sugar at $\$8\frac{1}{2}$ per cwt., and thereby lost 12 per cent.: how much was the whole cost?

22. A person owned $\frac{5}{2}$ of a mine, and sold $\frac{3}{4}$ of his interest for \$1,710: what was the value of the entire mine?

23. When it is 2 hr. 36' A. M., at the Cape of Good Hope, in longitude 18° 24' east, what is the time at Cape Horn, in longitude 67° 21' west?

24. What is the cost of 17 tons 18 cwt. 1 qr. 17 fb. of potash at \$53.80 per ton?

Examination II. March 1, 1867.

25. Express in words the number 42567000129301.
26. Multiply five hundred and forty thousand six hundred and nine, by seventeen hundred and fifty.

27. Give the rule for reduction descending.

28. How many steps of $2\frac{1}{2}$ ft. each would a man take in walking a mile?

29. How is a whole number reduced to a fraction of the same value having a given denominator?

30. What is the value of $\frac{3}{5}$ of $\frac{2}{3}$ of $\frac{1}{4}$ of $\frac{1}{2}$ when reduced to a simple fraction of the lowest terms?

31. Give the rule for reducing several fractions to equivalent fractions having the least common denominator.

32. Add 3²/₈ to 4 ²¹/₃₈.

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