# The University of the State of New York 244th High School Examination <br> ARITHMETIC 

Tuesday, January $22,1929-9.15 \mathrm{a} . \mathrm{m}$. to 12.15 p . m., only

## Fill in the following lines:

Name of school Name of pupil

## Instructions

Do not open this sheet until the signal is given.
Answer all questions in fart I and five questions from part II.
Part $I$ is to be done first and the maximum time to be allowed for this part is one and one half hours. Merely write the answer to each question in the space at the right; no work need be shown.

If you finish part I before the signal to stop is given you may begin part II. However, it is advisable to look your work over carefully before proceeding to part II, since no credit will be given any answer in part $I$ which is not correct and reduced to its simplest form.

When the signal to stop is given at the close of the one and one half hour period, work on part I must cease and this sheet of the question paper must be detached. The sheets will then be collected and you should continue with the remainder of the examination.

## ARITHMETIC

Tuesday, January 22, 1929

## Part I

Answer all questions in this part. Each question has 2 credits assigned to it; no partial credit should be allowed. Each anstver must be reduced to its simplest form.

1 Add | 309 |  |
| ---: | ---: |
|  | 5 |
|  | 84 |
|  | 5673 |
|  | 288 |
|  | 6320 |

2 Add 2.9; 372.04; 7056; 3.19; . 224
3 Add 43; 288; 173 ${ }^{\frac{1}{4}} 706 \frac{1}{4}$; 72
$435 \frac{1}{4}-9 \frac{1}{3}$
5 Subtract 904236

$$
695127
$$

$6 \quad 53.62-8.71$
7 Multiply 241.6 by 8.27
8 Divide 414.18 by 17.7
9 Divide 52 by $3 \frac{1}{4}$
10 Write the fractional equivalent of each of the following:

$$
5 \%, 33 \frac{1}{3} \%, 25 \%, 37 \frac{1}{2} \%
$$

11 What per cent of 72 is 48 ?
12 Find the radius of a circle whose circumference is 22 feet.
13 The prices in cents which a motorist paid for gasoline in different parts of the state were as follows: $20,17,21,19,23$. What was the average price paid?

14 A rectangular pool is 10 yards long, 5 yards wide and 2 yards deep; how many cubic feet does it contain?

15 What will 1600 tulip bulbs cost at $\$ 24$ a thousand?
16 Extract the square root of 1156 .
17 What is the interest on $\$ 500$ for $2 \frac{1}{2}$ years at $5 \%$ ?
18 A man bought a house for $\$ 8500$ and sold it for $\$ 8330$; what per cent of the cost did he lose on the transaction?

18
10...............Ans.
11...............Ans.
12.............Ans.
5..............Ans.
6..............Ans.
7.............. Ans.
8...............Ans.
9...............Ans.
13..................
14...............Ans.
15.............. Ans.
16..............Ans.
17............... Ans.
$\qquad$
19...............Ans.
20............. Ans.
21...............Ans.
22..............Ans.
23................Ans.
24...............Ans.
25..............Ans.

## ARITHMETIC

## Tuestay, January 22, 1999

Wribe at top of first page of answer puper to part II (0) name of sehool where you have neulinht (9) grase of woek completed in antithmetic: arithmete.

## Part II




26 Mr Daw has a bouse worth scco0. In is assessel at $75 \%$ of is real value. The axx mete in the city is $\$ 02$ ger $\$ 1000$ of assessed valuation. Repairs cost $\$ 100$ yearly and insurnuce 30 me ger \$200 per year. 31 . Duw has an oppoctunity to rent a house at $\$ \$ 5$ a month.
a Find the assessed valuation of the louse. [3]
8. What are MLr Daw's city taxes per year? [3]
e What is his insurance per year (based ou real value of property)? [4]
22 Using the flacts given in question 26, find whether it is cheaper for Mtr Daw to own or to rent a bouse. [Copy on your answer paper and complete the table below.]
a Interest on $\$ 8000$ at $6 \%$ a year
b Taxes
c. Insurance
d Repairs

- Total
$f$ Yearly rent at $\$ S 5$ a menth .......................[2]
9 Which method is cheaper? ...................... [2]
it How much cheaper?
28 A bouse was bought for $\$ 5000$. If repairs and selling expenses amount to $8 \%$, at what price must the bouse be sold to bring a net profit of $10 \%$ on the tonal cost? [10]

29 A mile and a quarter of fence is required to inclose a certain race track; find the cast of this fence at $\$ 1.10$ per foot. [10]

30 Charles Adams buys today of William Searles, Buffalo, N. Y., the following goods: 15 tulls of butter at $\$ 7.50$ a tab; ; 3 cases of egys at $\$ 9.60$ a case: 6 cases of camed peas at $\$ 175$ a case. Make out the bill in proper form [4]. Find the gross amount of the bill [2]. If a discount of $2 \%$ is allowed for cash, what is the met amount of the bill $[4]$ z

31 Eight gallons of ice cream were bought at $\$ 2$ a gallon. Bach quart was cut into 6 pen tions and sold for 10 cents a portion. The profit was what per cent of the cost? [10]

32 Four $\$ 1005 \%$ bonds were purchased at 943 phis a commission of $\frac{1}{} \%$ of the face value. a What was the total cost of the bonds? [4]
o What was the annual income? [3]
c What per cent of the cost was the annual income? [3]
33 The studemts' association of a school had $\$ 11718$ in the bank at the beginning of the month. The treasurer made the following deposits: $\$ 11825, \$ 168,40, \$ 50, \$ 1673,58865$. He drew checks for the following amounts: $\$ 50, \$ 0825, \$ 17578$, $\$ 2810$. How much was in the bank at the end of the month? [10]

