ARITHMETIC

Wednesday, January 22, 1936 — 9.15 a. m. to 12.15 p. m., only

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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 part 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.

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Part I

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

1 Add $3.87; $21.58; $8.84; $61.86; $39.64

2 $9\frac{1}{6} - 7\frac{1}{3}$

3 736×5.78

4 $2\frac{2}{3} \div \frac{2}{3}$

5 $\frac{1}{12} \times \frac{3}{4} \times 16$

6 Add $7\frac{1}{5}; 5\frac{3}{4}; 3\frac{1}{2}$

7 $6.273 \div 5.1$

8 If 50% of a number is 24, find the number.

9 At 2 for 5 cents, find the cost of 8 bars of candy.

10 What fraction of a yard is 27 inches?

11 Find the selling price of a coat listed at $15 and sold at a discount of 20%.

12 If the diameter of a circle is 8 feet, what is the radius?

13 Find the perimeter of a square 6.75 feet on a side.

14 If a scale of $\frac{1}{8}$ inch to the mile is used, how long a line should be drawn to represent 7 miles?

15 Write in figures: four hundred twenty-seven and fifteen thousandths.

16 What per cent of 60 is 12?

17 Last season the school team played 10 football games and won 8. What per cent of the games did the team win?

18 Find the interest on $150 for 2 years at 6%.

19 How much change will be received from a dollar given in payment for $2\frac{1}{2}$ pounds of beefsteak at 30 cents a pound?

20 The population of a village has increased from 1800 to 2400; what is the per cent of increase?

21 How many quarts are there in $3\frac{1}{2}$ gallons of milk?

22 Find the value of x in the proportion $8:12::x:72$

23 How much greater is 24 than 23.58?

24 Which is larger, .0025 or .005?

25 If a car uses a gallon of gasoline every 16 miles, how many gallons will be required in going 80 miles?

1................Ans.

2................Ans.

3................Ans.

4................Ans.

5................Ans.

6................Ans.

7................Ans.

8................Ans.

9................Ans.

10................Ans.

11................Ans.

12................Ans.

13................Ans.

14................Ans.

15................Ans.

16................Ans.

17................Ans.

18................Ans.

19................Ans.

20................Ans.

21................Ans.

22................Ans.

23................Ans.

24................Ans.

25................Ans.

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(b) Write at top of first page of answer paper to part II (a) name of school where you have studied, grade of work completed in arithmetic. The minimum requirement is the completion of the work of the first half of the eighth grade in arithmetic.

Part II

Answer any five questions from this part. No credit will be allowed unless all necessary operations are given. Reduce each result to its simplest form and mark each answer Ans.

26 What will be the annual premium on a house worth $12,000 that is insured against fire for ⅞ of its value at the rate of 25 cents per $100? [10]

27 A man owns a house worth $6000, which is assessed at 75% of its value. If the tax rate is $26.74 per $1000 of assessed valuation, what will be the amount of taxes paid? [10]

28 A school purchased 8 desks at $36 each, 10 chairs at $12.75 each and 3 tables at $17.50 each. There was a trade discount of 33⅓% and a cash discount of 2%. If the bill was paid at once, find the net amount paid. [10]

29 Mrs Green needed a sewing machine but did not have the money to buy one. She borrowed $60 from the bank so that she could pay cash. If she kept the money for 6 months and paid 6% interest, find the amount of money paid back to the bank. [10]

30 A commission agent received $450.60 for a load of apples shipped to him by a fruit grower. He charged 5% commission and paid $29.72 for freight, $18.85 for storage and $13.50 for hauling. How much should he remit to the fruit grower? [10]

31 Workmen are digging a cellar 24 feet by 28 feet by 9 feet and trucks are carrying the earth away. What will be the cost of removing the earth at 75 cents a cubic yard? [10]

32 Mary had $35.65 in her school savings. She earned $9.75 more and received $15 for a birthday present. In the summer she spent all her money for 7 weeks at camp. How much, on the average, did it cost her for each week in camp? [10]

33 A clerk was paid $5 a day for his services. He received in addition 2% on all daily sales above $50. If on Wednesday his sales amounted to $97.50, how much did he receive for that day's work? [10]