# **Entrance Exam Preparation - Ninth Grade**

Expected time for testing: 2 hours (Higher-level math students may take longer)

| Subject       | Assessment Content  | Approx. Time  |
|---------------|---|---|
| Wath          | Mastery of Math Facts test:   | 10 minutes  |
|               | Addition, subtraction, multiplication & division (two minutes for each test)  |   |
|               | Math Concepts test:   | 20 – 30 minutes<br>(depending on                                  |
|               | Four-digit addition and subtraction, decimals, long-division, fractions, rounding, algebra 1, geometry, square root, Pythagorean Theorem  | level being assessed)   |
| Reading &     | Reading and comprehension (3 tests, 3 minutes per story):   | 10 minutes  |
| Comprehension | Read 3 short stories and answer questions in multiple-choice format   |   |
| Spelling      | Spelling test   | 10 minutes  |
| Grammar       | Grammar test:  Identifying parts of speech: verb, noun, pronoun, adverb, adjective, conjunction, preposition, appositives, plurals, articles; Dissecting sentences: identify subjects, verbs and modifiers; Showing understanding of capitalization, punctuation and use of synonyms, antonyms, homonyms and homophones | No time limit<br>(most students<br>complete within<br>20 minutes) |
| Writing       | Composition:  | 10 minutes  |
|               | Student is required to write a paragraph or more in cursive on a topic of his/her choice.   |   |



#### **Intake Academic Assessment Summary**

| Student Name              | Age             | Grade L | evel (Current)      | Date  |
|---------------------------|-----------------|---------|---------------------|-------|
| Teacher Conducting Assess | ment            | Ac      | dministration Revie | w     |
| Subject Assessed          | Time Allocation | Score   |                     | Notes |
| Math Facts                |                 |         |                     |       |
| Addition                  |                 |         |                     |       |
| Subtraction               |                 |         |                     |       |
| Multiplication            |                 |         |                     |       |
| Division                  |                 |         |                     |       |
| Math Concepts             |                 |         |                     |       |
| Reading Comprehension     |                 |         |                     |       |
| Word Decoding             |                 |         |                     |       |
| Spelling                  |                 |         |                     |       |
| Orthography               |                 |         |                     |       |
| Composition               |                 |         |                     |       |
| Recommendations:          |                 |         |                     |       |
|                           |                 |         |                     |       |
|                           |                 |         |                     |       |
|                           |                 |         |                     |       |
|                           |                 |         |                     |       |

Note to Parents: The results of this Intake Academic Assessment are based upon performance standards and expectations of American Heritage School students for the age or grade level indicated above. This assessment is intended to measure current performance only and is used as one of various considerations in the School's intake process to make admission and grade level placement decisions. Thank you for your interest in American Heritage School. Our mission is to serve you in developing the hearts, minds, and bodies of your children as we strive together to magnify the divine potential of students and families.

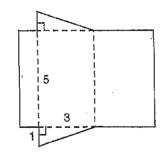
## Test 31, Form B

## SHOW YOUR WORK

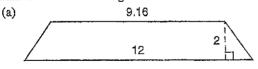
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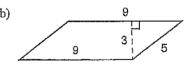
- 1. The boys covered the first 108 miles in 12 hours. Then they doubled their pace to travel the next 150 miles. How long did it take the boys to travel the total distance of 258 miles?
- 2. The mayor of Chicago gave Kara 11 jobs the first week, 16 the next week, and 27 the week after that. What was the average number of jobs given per week?
- 3. Julia bought a ring that was marked up 30 percent. If the dealer paid \$1000 for the ring, how much did Julia pay?
- 4. The pipes in the dress shop burst, resulting in considerable loss. The manager, who had purchased the dresses for \$60,000, had marked them up 30% but was forced to sell them all for half price. Her additional expenses for cleanup and repair were \$12,000. What was her net profit?
- 5. Find the surface area of a pyramid whose base is a 3 ft × 3 ft square and whose faces have an altitude of 2 feet.
- 6. Find the volume of a sphere with a radius of 6 inches.
- 7. If the product of a number and -15 is decreased by 25, the result is 23 greater than the product of the number and 9. What is the number?
- 8. Karen deposits \$5000 into an account that earns  $2\frac{3}{4}$ % interest compounded twice per year. How much money will be in the account in two years if no additional deposits or withdrawals are made?
- 9. The sales tax in Rome was VI percent. How much tax did Nero pay on a toga that cost CCCL denarii?
- 10. Graph the following points on a rectangular coordinate system: (a) (4, 1)
- (b) (-1, 4) (c) (3, -3)
- 11. One die is black and the other is red. Both are rolled. What is the probability of getting a sum of (a) 9?
  - 9? (b) 6?

12. Find the volume of the solid formed when the following figure is folded along the dashed lines. Dimensions are in feet.



13. Find the area of each figure. Dimensions are in centimeters.

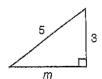




- 14. To which number sets do (a) -7 and (b)  $\frac{5}{7}$  belong?
- 15. How many ways can 8 objects be arranged in a row?
- 16. (a) Find z.



(b) Find m.



- 17. Evaluate:  $\sqrt[a]{b} + \sqrt{b} + a^3$  if a = 4 and b = 256
- 18. Graph on a number line:  $x \le 0$

Simplify:

19. 
$$\frac{(-1)^8 - 2(2^3 - 2 \cdot 5)}{3(\sqrt[3]{-729} + 2^3)}$$

**20.** 
$$\frac{2}{5} \left( 2\frac{1}{2} \cdot \frac{1}{3} - \frac{1}{2} \cdot \frac{1}{3} \right)$$

#### Limited Warranty

The Nomistake Electric Typewriter is guaranteed for the period of six months from the date of original purchase to be free from defects in material and workmanship, with the following conditions: that the typewriter has been used as directed by its operating instructions; that no repairs have been made except by factory approved repair workers.

This warranty does not cover damage caused by carelessness or rough handling.

In the event that this typewriter is resold within six months of the original purchase, the warranty can be transferred to the new owner.

Upon notification, the Nomistake Corporation will replace, free of charge, any defective parts if all conditions of this warranty have been met. Should your typewriter require repairs, contact your local Nomistake Repair Center.

The Nomistake Corporation, Boston, MA.

- 1. The Nomistake Electric Typewriter is guaranteed for ® all time ® one year © six months ® three months
- 2. The Nomistake Electric Typewriter is guaranteed to be operate 

  put together properly 

  unbreakable 

  fool proof
- 3. For this guarantee to be good, the buyer must A pay extra money B fill in a card O follow the operating instructions D be a good typist
- 4. If something goes wrong with the typewriter, you are supposed to

  write the company in Boston
  take it back to where you bought
  gresell it
  contact the local Nomistake Repair Center
- 5. If something is wrong with the way this typewriter was made, the company will ® replace the defective parts ® give you a new typewriter © give you your money back ® loan you a new typewriter
- 7. If you try to repair the typewriter yourself, the company will ® never repair it ® charge you to repair it © give you new parts free ® tell you how to repair it correctly

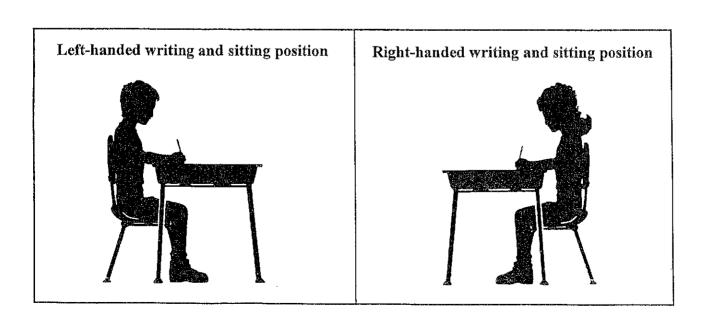
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1. Improper and uncomfortable seating arrangements in classrooms probably cause a large number of inattention and hyperactivity problems. The chair should be *ergonomically* correct to support the child's back and general posture. Schools should give as much attention to the physical needs of children in a classroom as large corporations do for their employees. This is for productivity, comfort and safety.



- 2. Though sitting and lounging about on the floor, or in beanbag chairs, bathtubs, etc., has become quite popular in some classrooms, we do not think it affords the comfort or physical ease needed for accurate writing and spelling. The sketches below show correct seating for this method to work as prescribed.
- B. Prepare to teach letter strokes beginning in the next section.
  - 1. Have students clear all materials from the desk top except name tag, dotted-line paper and a No. 2, six-sided, black lead pencil.
  - 2. Desks are already adjusted for proper height for each student's feet to be flat on the floor, spines straight against the back rest, head held high and arm position as shown in the pictures below for left and right-handed students.
    - a. A student's head should not be allowed to fall forward because this causes strain on the back and neck muscles.
    - b. Both arms should rest comfortably on the desk; elbows should be just off the edge.
    - c. The body should not touch the front edge of the desk. This causes a tendency to lean on the desk, which places strain on the neck and shoulder muscles.



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