

END OF TENTH GRADE ASSESSMENT

CUMULATIVE

1. Reading Assessment, Part One: Student Passage

2. Reading Assessment, Part Two: Student List

3. Spelling Assessment

4. English Grammar Assessment

5. Math Assessment.

Student's Name

Date

(EO10G: Student)

About the Story: Read this story to find out about a woman who became a famous pilot – Amelia Earhart.

Earhart was away a lot, in his work as a claims agent, and sometimes he took his wife along with him. The result was that Amelia and her younger sister Muriel spent much of their childhood living with their grandparents. Amelia had a rich fantasy life, and lived adventurous summers exploring caves, playing baseball with equipment given to her by her father, reading Scott, Dickens, George Eliot; but she must have learned early on that she was essentially alone.

“I was a horrid little girl,” she said later. “Perhaps the fact that I was exceedingly fond of reading made me endurable. With a large library to browse in, I spent many hours not bothering anyone after I once learned to read.”

The family moved to Des Moines in 1907, apparently to escape the domination of the grandparents, and on her tenth birthday, Amelia saw her first airplane. That day, her father took her to the Iowa State Fair; it was only five years after the Wright brothers had first flown at Kitty Hawk (incidentally, with money provided by a Wright sister) and airplanes were a great curiosity. Amelia, however, was not impressed.

LISTS

LIST 1

1. alien	1. adept	1. affluent	1. abstinence
2. animation	2. analysis	2. anachronism	2. apprentice
3. apprentice	3. benign	3. bivouac	3. blasphemy
4. binoculars	4. bizarre	4. blithe	4. boisterous
5. burnished	5. chagrin	5. deteriorate	5. clandestine
6. chronic	6. composure	6. divergent	6. coherent
7. discern	7. diminish	7. euphoria	7. diminutive
8. ecstatic	8. falter	8. grimace	8. domicile
9. exaggerate	9. fanatic	9. incongruity	9. facetious
10. ethnic	10. gaunt	10. legitimate	10. feudalism
11. furtive	11. hybrid	11. ludicrous	11. garrulous
12. horde	12. jostle	12. monotonous	12. irony
13. ingenuous	13. lethargic	13. periphery	13. macabre
14. perennial	14. parallel	14. pianissimo	14. monologue
15. predecessor	15. predatory	15. rendezvous	15. nuptial
16. quarantine	16. reverie	16. repatriate	16. paradoxical
17. scrutinize	17. simultaneous	17. shrapnel	17. renaissance
18. strategy	18. sustenance	18. temerity	18. synopsis
19. velocity	19. taunt	19. upholstery	19. veranda
20. warp	20. valiant	20. wizened	20. vestibule

SPELLING ANSWER SHEET

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ENGLISH GRAMMAR ASSESSMENT
(EO10G)

I. Rewrite; make the necessary corrections:

1. you must said the teacher describe the motion of the earth as good as you are able

2. richard where have you lain my hat coat and gloves

3. john didnt have no money to to give he and i for the show

4. the teacher said give synonyms for the following words aim alike change courageous do fiction faithful

5. history religion mathematics english and literature are really the most important subjects in the field of high school education

6. how different i felt after mr jeffrey told me what had happended he said john you know that money was taken yes i said well dont worry we found it

English Grammar Assessment (cont.)
(EO10G)

7. the book *all quiet on the western front* is a masterpiece of understanding and portraying human emotions during wartime

- II. Diagram the following sentences and name the part of speech of each word.

1. Everybody talks about the weather, but nobody does anything about it.

2. I was looking for the blueprints when I found that on the floor.

III. Write in cursive, an essay of approximately 100 to 150 words. Choose a topic from those listed below. You make make one or more drafts before submitting the final draft. Use a separate sheet of paper for this essay.

- A. My most favorite subject and my least favorite subject.
- B. My impressions of the struggle between the Democrats and Republicans on the national level.
- C. What relationship should exists between the Holy Father and his bishops.
- D. The concept of motherhood and how it shapes the family.

MATH ASSESSMENT
(E10G)

Directions: Use separate sheets of paper to work the problems. Record your answers on the answer sheets provided.

PART I.

1. A 60 percent markup of the purchase price was necessary to pay the rent, utilities, and the workers and still make a small profit. If an item sold for \$1424, what did the storekeeper pay for it?
2. Sister Baby's boat could attain a speed of 18 miles per hour on a lake. If the boat took the same time to go 132 miles down the river as it took to go 84 miles up the river, how fast was the current in the river?
3. Donna took twice as long to drive 720 miles as Maple took to drive 200 miles. Find the rates and times of both if Donna's speed exceeded that of Maple by 40 miles per hour.
4. The initial pressure and temperature of a quantity of an ideal gas was 400 millimeters of mercury and 300 K. If the volume was held constant, what would the final temperature be in kelvins if the pressure was increased to 600 millimeters of mercury.
5. David and Le Van found three consecutive multiples of 11 such that 4 times the sum of the first and third was 66 less than 10 times the second. What were the numbers?
- *6. Divide $x^3 + y^3$ by $x + y$.
- *7. Divide $x^3 - y^3$ by $x - y$.
8. Find $ab(2)$ if $a(x) = x - 5$, $D = \{\text{Reals}\}$ and $b(x) = x^2 + 4$, $D = \{\text{Negative integers}\}$.

Complete the square as an aid in graphing:

9. $y = x^2 + 4x + 6$
10. $y = -x^2 + 4x - 6$
11. Graph on the number line: $x + 3 \geq 5$, $D = \{\text{Reals}\}$
12. Find the number that is $\frac{2}{3}$ of the way from $\frac{1}{4}$ to $2\frac{1}{2}$.

13. Use substitution:
$$\begin{cases} 4x + 3y = 17 \\ 2x - 3y = -5 \end{cases}$$

Solve:

14.
$$\begin{cases} x^2 + y^2 = 6 \\ x - y = 2 \end{cases}$$
15.
$$\begin{cases} x^2 + y^2 = 10 \\ 2x^2 - 2y^2 = 5 \end{cases}$$

16.
$$\begin{cases} x + 2y + z = -1 \\ 3x - y + z = 6 \\ 2x - 3y - z = 8 \end{cases}$$

Graph:

17.
$$\begin{cases} x - 4y \leq -4 \\ x < 3 \end{cases}$$
18. $-3 \leq x - 3 \leq 4$, $D = \{\text{Integers}\}$

Simplify:

19. $\frac{(x^{2a-2})^b}{x^{b/2}}$
20. $\frac{m}{m^2 + \frac{m}{m^2 + \frac{1}{m}}}$
21. $\sqrt[5]{x^2y^3} + \sqrt{xy}$

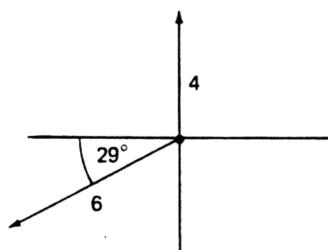
Math Assessment: Part I (cont).
(EO10G)

22. $\frac{2i^2 + i^3}{i^3 + 2}$

23. $\frac{2i - 5}{5i^2 - 2i}$

24. $\frac{3 + 2\sqrt{5}}{5 - \sqrt{20}}$

25. The two vectors act on the point as shown. Find the resultant vector.



26. $a\left(\frac{b}{c} - \frac{1}{x}\right) = \frac{m}{p}$; find x

27. Solve: $\sqrt{z} + \sqrt{z + 33} = 11$

Simplify:

28. $\sqrt{-16} - \sqrt{-2}\sqrt{2}\sqrt{-3}\sqrt{-3} - i^5$

29. $3\sqrt{\frac{4}{3}} - 2\sqrt{\frac{3}{4}} + 5\sqrt{48}$

PART II.

1. There were 26 nickels, dimes, and quarters in all and their value was \$2.25. How many coins of each type were there if there were 10 times as many nickels as quarters?
2. The total number of blues, greens, and yellows in the pot was 7. The blues weighed 1 pound, the greens weighed 4 pounds, and the yellows weighed 5 pounds. The total weight was 25 pounds. If there was 1 more yellow than green, how many of each color were there?
3. A two-digit counting number has a value that equals 4 times the sum of its digits. If the units' digit is 1 greater than the tens' digit, what is the number?
4. Find three consecutive integers such that the product of the first and the third is 35 greater than the product of the second and 5.
5. The number of students varied directly as the number of teachers and as the number of administrators squared. One thousand students were present when there were 5 teachers and 2 administrators. How many students were there when there were 8 teachers and only 1 administrator?

Math Assessment: Part II (cont.)
(EO10G)

Graph the solution on a number line:

6. $(x + 4)(x - 2) > 0, D = \{\text{Integers}\}$ 7. $x^2 > -6 + 5x, D = \{\text{Integers}\}$

Expand:

8. $(x^{1/2} + y^{1/4})^2$ 9. $(x^{1/2} - y^{-1/2})^2$ 10. $(x^{1/2}y^{-1/2})^2$

Factor:

11. $x^3 - m^6y^6$ 12. $8x^6y^3 - 27m^3p^{12}$

13. Show that $1.02\overline{13}$ is a rational number by writing it as a quotient of integers.

14. Complete the square as an aid in graphing: $y = -x^2 - 4x - 1$

Graph on a number line:

15. $-|x| - 3 < -7, D = \{\text{Reals}\}$ 16. $-2 \nlessgtr x + 5 < 4, D = \{\text{Integers}\}$

Solve:

17.
$$\begin{cases} \frac{3}{5}x - \frac{2}{5}y = -10 \\ .003x + .2y = 1.97 \end{cases}$$
 18.
$$\begin{cases} x + 2y = 10 \\ x - 3z = -16 \\ y + 2z = 16 \end{cases}$$
 19.
$$\begin{cases} x^2 + y^2 = 4 \\ x - y = 1 \end{cases}$$

20. Solve $-2x^2 + 3x + 5 = 0$ by completing the square.

21. Change 40 inches per second to feet per hour.

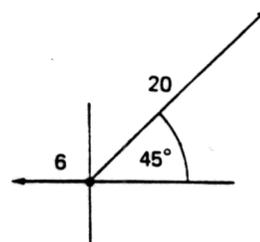
Simplify:

22. $\frac{2i^3 - \sqrt{-3}\sqrt{-3}}{4 - 3i^2}$ 23. $\frac{2\sqrt{3} + 2}{3 - \sqrt{3}}$ 24. $\frac{a^{x/2}(y^2 - x)^{1/2}}{a^{3x}y^{-2x}}$

25. $\sqrt{xy}\sqrt{x^2y}$ 26. $\sqrt{\frac{2}{7}} - 3\sqrt{\frac{7}{2}} + 2\sqrt{126}$

27. Graph:
$$\begin{cases} -y < 3 \\ 3x + y \leq 3 \end{cases}$$

28. Find the resultant vector of the two vectors shown.



Solve by factoring.

29. $2x^2 = x + 10$ 30. $-15x = 7x^2 - 2x^3$

**MATH ANSWER SHEET
PART I**

Note: There may not be space on the lines below for some answers. Use the blank space below if needed.

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**MATH ANSWER SHEET
PART II**

Note: There may not be space on the lines below for some answers. Use the blank space below if needed.

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