Placement Test

10th Grade Placement Test

Student Name: _____

Date: _____/_____/**2025**

English Language Arts (ELA)

Reading Comprehension

1. Read the excerpt below and answer the question:
    "The industrial revolution brought about tremendous changes, not just in manufacturing but also in society and urban development."
    What is the central idea of this passage?
    a) Urban development has not changed over time.
    b) The industrial revolution affected various aspects of life.
    c) Manufacturing was not impacted by the industrial revolution.

2. What is the meaning of the word "incessant" in this sentence: *"The incessant noise of the factory made it hard for workers to concentrate."*
    a) Constant
    b) Intermittent
    c) Loud

3. Which of the following is an example of figurative language?
    a) The sky was blue.
    b) The clouds danced across the sky.
    c) It rained for hours.

4. What is the author's purpose in the following passage?
    "Without proper laws to regulate industrial pollution, many rivers and lakes became unsafe for humans and animals."
    a) To entertain readers with a story about pollution.
    b) To inform readers about the effects of industrial pollution.
    c) To persuade readers to recycle.

5. What is the tone of this passage?
   "The vast forest, once teeming with life, now lay silent and barren, a grim reminder of unchecked deforestation."
   a) Joyful
   b) Nostalgic
   c) Somber

Grammar and Vocabulary

6. Which sentence is correct?
   a) Neither of the options are suitable.
   b) Neither of the options is suitable.
   c) Neither of the options were suitable.

7. Identify the error in this sentence: *"The books on the shelf is dusty."*
   a) Subject-verb agreement
   b) Punctuation
   c) Spelling

8. Choose the correct word: *"The principal's decision had a profound _____ on the school."*
   a) Affect
   b) Effect
   c) Impacted

9. Which sentence uses parallel structure?
   a) She likes reading, to jog, and painting.
   b) She likes reading, jogging, and painting.
   c) She likes to read, jogging, and to paint.

10. What is the synonym of "benevolent"?
    a) Generous
    b) Malevolent
    c) Indifferent

Writing

11. Write a short argumentative paragraph on whether schools should require uniforms. Provide at least one example to support your point. *(Open-ended)*

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12. Rewrite the following sentence to eliminate redundancy:
"The end result of the competition was that she won first place."

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13. Write a thesis statement for an essay on the benefits of renewable energy. *(Open-ended)*

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14. Fill in the blank with the correct form of the verb:
    "If he _____ earlier, he wouldn't have missed the train."
    a) Left
    b) Leaves
    c) Had left

15. Write a persuasive paragraph encouraging teenagers to reduce screen time.
    (Open-ended)

Math

Algebra

16. Solve for x: $3x - 7 = 11$
    a) $x = 6$
    b) $x = 4$
    c) $x = 2$

17. Simplify: $4x - 2(3x + 5)$
    a) $-2x - 10$
    b) $2x - 10$
    c) $-2x + 10$

18. Solve for y: $2y + 3 = 9$
    a) $y = 3$
    b) $y = 6$
    c) $y = -3$

19. Factorize: $x^2 - 9x + 14$
    a) $(x - 7)(x - 2)$
    b) $(x + 7)(x + 2)$
    c) $(x - 7)(x + 2)$

20. Solve: If $f(x) = x^2 - 4x + 1$, find $f(2)$.
a) -1
b) 3
c) 0

Geometry

21. Calculate the area of a rectangle with a length of 8 cm and a width of 5 cm.
a) 13 cm²
b) 40 cm²
c) 20 cm²

22. Find the circumference of a circle with a radius of 7 cm. Use $\pi = 3.14$.
a) 44 cm
b) 21.98 cm
c) 43.96 cm

23. A triangle has sides measuring 6 cm, 8 cm, and 10 cm. Is it a right triangle?
a) Yes
b) No

24. Find the volume of a cube with a side length of 4 cm.
a) 16 cm³
b) 64 cm³
c) 48 cm³

25. What is the sum of the interior angles of a pentagon?
a) 360°
b) 540°
c) 720°

Statistics and Probability

26. A class has 20 students. If 12 are boys, what percentage are girls?
a) 60%

b) 40%

c) 50%

27. Find the median of the following data set: 3, 7, 9, 15, 17.

    a) 9

    b) 15

    c) 10

28. What is the probability of rolling a 4 on a standard six-sided die?

    a) 1/6

    b) 1/4

    c) 1/3

29. If the mean of five numbers is 12, what is their total sum?

    a) 60

    b) 48

    c) 72

30. A jar contains 5 red marbles, 3 blue marbles, and 2 green marbles. What is the probability of randomly selecting a red marble?

    a) 1/2

    b) 1/5

    c) 1/10