

Study Guide for the Computerized Placement Tests

CPTs Reading Example Items

The CPTs reading test measures how well the student understands what he/she reads. Some questions are of the sentence relationship type in which one must choose how two sentences are related. Other questions test recognizing distinctions between main and secondary points and making simple deductions from a series of facts. Specific skills to be tested are main ideas, supporting details, words in context, author's purpose and tone, relationships within and between sentences, fact and opinion, inferences, and conclusions.

1. Two underlined sentences are followed by a question or statement about them. Read each pair of sentences, and then choose the best answer to the question or the best completion of the statement.

The American prison system functions primarily to exact retribution.

In Japan, the courts are less concerned with sending people to jail than they are with rehabilitating them.

What does the second sentence do?

- A. It supports an idea found in the first sentence.
- B. It contrasts an idea that is expressed in the first sentence.
- C. It analyzes an idea made in the first sentence.
- D. It exemplifies an idea found in the first sentence.

From *Sociology* by Scott and Sally McNall

2. Read the statement or passage, and then choose the best answer to the question. Answer the question on the basis of what is stated or implied in the statement or passage.

My parents' divorce was final. The house had been sold and the day had come to move. Thirty years of the family's life was now crammed into the garage. The two-by-fours that ran the length of the walls were the only uniformity among the clutter of boxes, furniture and memories. All was frozen in limbo between the life just passed and the one to come. I suddenly became aware of the coldness of the garage, but I didn't want to go back inside the house, so I made my way through the boxes to the couch. I cleared a space to lie down and curled up, covering myself with my jacket. I hoped my father would return soon with the truck so we could empty the garage and leave the cryptic silence of parting lives behind.

What is the author's mood?

- A. melancholy
- B. idealistic

- C. vindictive
- D. indignant

From *Limbo* by Rhonda Lucas

3. Read the statement or passage, and then choose the best answer to the question.
Answer the question on the basis of what is stated or implied in the statement or passage.

Australia has many strange beasts, one of the oddest of which is the koala. Perfectly adapted to one specific tree, the eucalyptus, this living teddy bear does not need anything else, not even a drink! The moisture in the leaves is just right for the koala, making it the only land animal that doesn't need water to supplement its food.

The passage indicates that the koala

- A. is a member of the bear family that does not drink.
- B. is the only animal that does not need any water in addition to food.
- C. adapts itself to any surroundings.
- D. requires a single life source.

From *That Astounding Creator -- Nature* by Jean George

4. Two underlined sentences are followed by a question or statement about them. Read each pair of sentences, and then choose the best answer to the question or the best completion of the statement.

Males and females are treated differently from grade school through college.

Therefore, this treatment of the sexes by school officials influences both the student's choice of career and level of performance.

How are the sentences related?

- A. The second sentence contradicts the first sentence.
- B. The second sentence shows a cause of the first sentence.
- C. The second sentence states an effect of the first sentence.
- D. The second sentence defines an idea found in the first sentence.

From *Sociology* by Scott and Sally McNall

5. Read the statement or passage, and then choose the best answer to the question.
Answer the question on the basis of what is stated or implied in the statement or passage.

While silk-stocking Manhattan is asleep, East Harlem is starting to bustle. The poor are early risers. They have the jobs others don't want: the early-hour jobs, the late-hour jobs. The streets are filled with fast-moving people: men, women, and swarms of children of

all sizes. Some will stand at the bus stops, but most will crowd into the downtown subways that speed them to jobs to serve the affluent. East Harlem is a busy place, night and day, filled with the joyous and troubled lives of residents - rather than the heavy commercial traffic of mid-Manhattan. There is so much togetherness.

The main idea of this passage is that the residents of East Harlem

- A. are dissatisfied with their jobs.
- B. are poorer than Manhattan's residents.
- C. share common struggles and goals.
- D. disdain the rich of Manhattan.

From *A Day in East Harlem* by Patricia Cayo Sexton

6. Read the statement or passage below, and then choose the best answer to the question. Answer the question on the basis of what is stated or implied in the statement or passage.

In embarking on the fight for independence, America faced formidable obstacles. The Continental Congress did not have the authority to pass binding legislation or to impose taxes. The new nation had no army and no navy, and its population numbered only 2.5 million people, 20 percent of whom were slaves. Britain, by contrast, was a mighty power of 11 million people with the world's best navy and a well-disciplined army. Fifty thousand troops were in North America in 1776, and Britain hired thirty thousand German soldiers to supplement its forces during the war. However, the American Revolutionaries were not deterred.

What is the main point of the passage?

- A. Britain was a great power whose population outnumbered that of America's.
- B. America's military forces were less experienced than Britain's military.
- C. America's Continental Congress had limited authority.
- D. As America was about to engage in its struggle for autonomy, it was faced with arduous barriers.

From *An American History* by Rebecca Brooks Gruver

7. Two underlined sentences are followed by a question or statement about them. Read each pair of sentences, and then choose the best answer to the question or the best completion of the statement.

The function and meaning of the American family have changed over time.

There is now a stronger emphasis on romantic love between parents and an increase in the number of mothers in the workforce.

What does the second sentence do?

- A. It gives examples.
- B. It states effects.
- C. It contradicts ideas found in the first sentence.
- D. It makes a comparison to the first statement.

From *Sociology* by Scott and Sally McNall

8. *Two underlined sentences are followed by a question or statement about them. Read each pair of sentences and then choose the best answer to the question or the best completion of the statement.*

The Midwest is experiencing its worst drought in fifteen years.

Corn and soybean prices are expected to be very high this year.

What does the second sentence do?

- A. It restates the idea found in the first.
- B. It states an effect.
- C. It gives an example.
- D. It analyzes the statement made in the first.

From The College Board

9. *Read the statement or passage, and then choose the best answer to the question. Answer the question on the basis of what is stated or implied in the statement or passage.*

Elements are basic substances that can not be broken down into anything simpler, and an atom is the smallest unit of an element. Compounds are combinations of two or more elements and can be broken down into simpler substances. Compounds are formed when atoms are held together by an attractive force called a chemical bond. A molecule is the smallest unit of a compound, or a gaseous element, that can exist and still retain the characteristic properties of a substance.

According to the passage, compounds

- A. require a chemical bond.
- B. develop when the smallest unit of an element is broken down.
- C. are formed when elements combine with atoms.
- D. are the basic units of molecules.

From *Introduction to Physics and Chemistry* by Bill Tillery

10. *Read the statement or passage, and then choose the best answer to the question. Answer the question on the basis of what is stated or implied in the statement or passage.*

It is early summer. August's long-awaited vacation time still seems ages away, but by the same token, its torpor-producing heat and mildew-generating humidity have not yet arrived. Instead, these cool, end-of-June days practically insist on getting the picnic season under way immediately. But, alas, there is a difficulty: alfresco dining has a bad name among us. Tenth-rate hot dogs, carbonized chicken parts and beef a la charcoal lighter are principally what come to mind when we hear the words "outdoor food."

The passage suggests that the author believes that

- A. picnicking is the best way to spend summer.
- B. August is better than June for a picnic.
- C. picnicking has an unsavory reputation.
- D. picnicking is better alfresco.

From *A Spanish Picnic* by Robert Capon

11. *Read the statement or passage, and then choose the best answer to the question. Answer the question on the basis of what is stated or implied in the statement or passage.*

Anorexia Nervosa is found predominantly among adolescent females, affecting one in 250 girls between 12 and 18 years of age. These young women often come from middle to upper class families and are described as intelligent, obedient, even "model" children until the eating disorder emerges. At that point, the constant battle over eating disrupts every aspect of life for the girl and her family.

Anorexia Nervosa

- A. prevails only among adolescents.
- B. results from a desire to be perfect.
- C. affects females of any socioeconomic backgrounds.
- D. is a common ailment affecting American teenagers.

From *Eating Disorders--An Adolescent Problem* by Helen Guthrie

12. *Read the statement or passage, and then choose the best answer to the question. Answer the question on the basis of what is stated or implied in the statement or passage.*

Myths are stories, the products of fertile imagination, sometimes simple, often containing profound truths. They are not meant to be taken too literally. Details may sometimes appear childish, but most myths express a culture's most serious beliefs about human beings, eternity, and God.

The main idea of this passage is that myths

- A. are created primarily to entertain young children.

- B. are purposely written for the reader who lacks imagination.
- C. provide the reader with a means of escape from reality.
- D. illustrate the values that are considered important to a society.

From The College Board

CPTs Arithmetic Example Items

The Arithmetic test measures skills in three categories. The first, operations with whole numbers and fractions, includes addition, subtraction, multiplication, division, and recognizing equivalent fractions and mixed numbers. The second category, operation with decimals and percents, involves addition, subtraction, multiplication, and division as well as percent problems, equivalencies, and estimation problems. The last category, applications and problem solving, includes questions on rate, percent, and measurement problems, geometry problems, and distribution of quantity into its fraction parts.

1. All of the following are ways to write 20 percent of N, EXCEPT:

- A. $0.20N$
- B. $20/100N$
- C. $1/5N$
- D. $20N$

2. $7/20 =$

- A. 0.035
- B. 2.858
- C. 0.35
- D. 3.5

3. $7.86 \times 4.6 =$

- A. 36.156
- B. 36.216
- C. 351.56
- D. 361.56

4. Which of the following is the least?

- A. 0.105
- B. 0.501

- C. 0.015
- D. 0.15

5. The average weight for a group of 20 women is 130 pounds. If the average weight for $\frac{3}{4}$ of these women was 140 pounds, what was the average weight, in pounds, for the rest of the women?

- A. 100
- B. 110
- C. 120
- D. 135

6. A soccer team played 160 games and won 65% of them. How many games did they win?

- A. 94
- B. 104
- C. 114
- D. 124

7. The Number of Employees of Company K Who Were Involved in Accidents:

	Plant X	Plant Y
Mechanic	11	30
Power Machine Operators	9	12

The table above shows the results of an industrial health survey of 10,000 people employed at Company K for more than 5 years. If 2,500 employees were surveyed in each of the four categories, which group of employees had the highest accident rate?

- A. Mechanics in Plant X
- B. Mechanics in Plant Y
- C. Power Machine Operators in Plant X
- D. Power Machine Operators in Plant Y

8. Which of the following is closest to "10.5"?

- A. 3
- B. 4
- C. 5
- D. 8

9. Three people who work full time are to work together on a project, but their total time on the project is to be equivalent to that of only one person working full time. If one of the people is budgeted for $\frac{1}{2}$ of his time to the project and a second person for $\frac{1}{3}$ of her time, what part of the third worker's time should be budgeted to this project?

- A. $\frac{1}{3}$
- B. $\frac{1}{4}$
- C. $\frac{1}{6}$
- D. $\frac{1}{8}$

10. $.4999 \times 16.00027$ is approximately equal to

- A. .08
- B. .8
- C. 8
- D. 80

11. What is 40% of 85?

- A. 21.25
- B. 36
- C. 34
- D. 212.5

12. 15 is what percent of 60?

- A. 90%
- B. 25%
- C. 40%
- D. 9%

13. John learned that after overhauling the carburetor in his car he would use only 80% as much gas. Last month, before overhauling his carburetor, he used 125 gallons of gas. Assuming that John drives the same number of miles next month, how many gallons of gas can he expect to save next month after overhauling his carburetor?

- A. 20
- B. 25
- C. 45
- D. 100

14. Debra took a test that consisted of 150 questions and she got 78% correct. How many questions did Debra miss on the test?

- A. 28
- B. 33
- C. 24
- D. 117

15. Sarah spends $\frac{1}{4}$ of her income for transportation, $\frac{1}{6}$ of her income for food, and $\frac{1}{3}$ of her income for rent and utilities. What fractional part of Sarah's income is left for all of her other expenses?

- A. $\frac{1}{4}$
- B. $\frac{3}{13}$
- C. $\frac{1}{8}$
- D. $\frac{3}{4}$

16. Sam and Mary each owned one-half stock in a printing company. Sam sold $\frac{2}{5}$ of his stock to Mary. What fractional part of the printing business does Mary now own?

- A. $\frac{7}{10}$
- B. $\frac{9}{10}$
- C. $\frac{3}{7}$
- D. $\frac{6}{7}$

17. A car traveled at 65 miles per hour for a total of 390 miles. How many hours did the car travel?

- A. 7
- B. 39
- C. 25,350
- D. 6

18. If the area of rectangle is 126 square inches and the length is 14 inches, then what is the width of the rectangle?

- A. 112 inches
- B. 9 inches
- C. 18 inches
- D. 49 inches

19. Sam has a budget of \$45 to spend on entertainment for the weekend. If he spent $\frac{1}{3}$ of his budget on Friday and $\frac{2}{5}$ of his budget on Saturday, how many dollars does he have left over to spend on Sunday?

- A. \$12
- B. \$33
- C. \$9
- D. \$36

The Elementary Algebra test measures skills in three categories. The first, operations with integers and rational numbers, includes computations with integers and negative rationals, the use of absolute values, and ordering. The second category, operations with algebraic expressions, tests skills with the evaluation of simple formulas and exponents, simplifying algebraic fractions, and factoring. The third category tests skills in equation solving, inequalities, and word problems. These questions include solving systems of linear equations, the solution of quadratic equations by factoring, solving verbal problems presented in algebraic context, geometric reasoning, the translation of written phrases into algebraic expressions, and graphing.

1. Evaluate $|-26 + 10| =$

- A. 4
- B. -16
- C. 16
- D. 36

2. If a number is divided by 4 and then 3 is subtracted, the result is 0. What is the number?

- A. 12
- B. 4
- C. 3
- D. 2

3. If A represents the number of apples purchased at \$.15 each and B represents the number of bananas purchased at \$.10 each, which of the following represents the total value of the purchases?

- A. $A=B$
- B. $25(A=B)$
- C. $10A+15B$
- D. $15A+10B$

4. $16x-8=$

- A. $8x$
- B. $8(2x-x)$
- C. $8(2x-1)$
- D. $8(2x-8)$

5. If $x^2 - x - 6=0$, then x is:

- A. -2 or 3
- B. -1 or 6
- C. 1 or -6

D. 2 or -3

6. Which of the following is not a factor of $2X^2 - 8X + 8$:

A. 2

B. $2X - 4$

C. $X - 2$

D. $2X + 4$

7. Factor: $15x - 3$

A. $12x$

B. $3(5x - x)$

C. $3(5x - 1)$

D. $3(5x - 3)$

8. Simplify: $(5x^2 - 2x + 5) - (2x^2 + 3x - 7) =$

A. $7x^2 + x + 12$

B. $3x^2 + x - 2$

C. $3x^2 - 5x + 12$

D. $3x^2 - 5x - 2$

9. Simplify: $(3x - 5)(2x + 7) =$

A. $x + 2$

B. $17x + 35$

C. $6x^2 + 11x - 35x$

D. $6x^2 + 11x - 35$

10. If $-6(2x + 1) = -4x + 10$, then $x =$

A. -2

B. $-1/4$

C. -1

D. 24

11. If $2x + 2 \geq 5x + 11$, then

A. $x \leq -3$

B. $x \geq -3$

C. $x \geq 12$

D. $x \geq 3$

12. If $x^2 - 2x - 8 = 0$, then $x =$

- A. -4 or 2
- B. -2 or 4
- C. -1 or 8
- D. -8 or 1

13. Choose the equation that is equivalent to the verbal description:

The difference between a number, x , and five less than twice the number is 9.

- A. $x - (5 - 2x) = 9$
- B. $x + (5 - 2x) = 9$
- C. $x - (2x - 5) = 9$
- D. $x + 2x - 5 = 9$

Answer Key to Sample CPTs Questions

Reading Skills

- 1. B
- 2. A
- 3. D
- 4. C
- 5. C
- 6. D
- 7. A
- 8. B
- 9. A
- 10. C
- 11. C
- 12. D

Sentence Skills

- 1. C
- 2. C
- 3. A
- 4. C
- 5. B
- 6. B
- 7. C
- 8. C
- 9. B
- 10. B
- 11. A
- 12. D

Arithmetic Skills

1. D
2. C
3. A
4. C
5. A
6. B
7. B
8. D
9. C
10. C
11. C
12. D
13. B
14. B
15. A
16. A
17. D
18. B
19. A

Elementary Algebra Skills

1. A
2. A
3. D
4. C
5. A
6. D
7. C
8. C
9. D
10. A
11. A
12. B
13. C