



# CCAT Grade 5

# PDF Sample Test

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\* The correct answers and explanations are located at the end of this PDF.

# Practice Questions

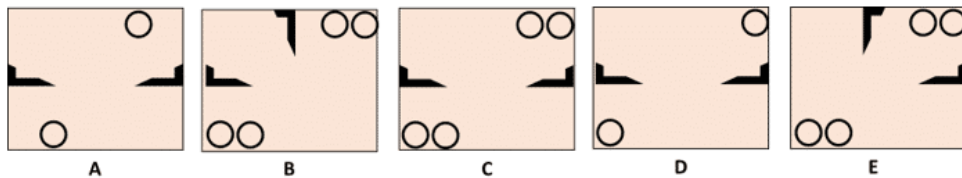
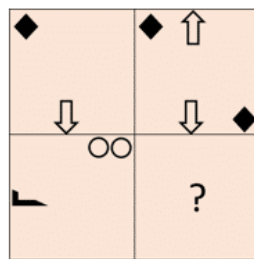
## CCAT Grade 5 Nonverbal Battery Sample Questions

### Question #1

#### Figure Matrices Practice Question

In each row and/or column, the pictures change in the same way or follow the same rule.

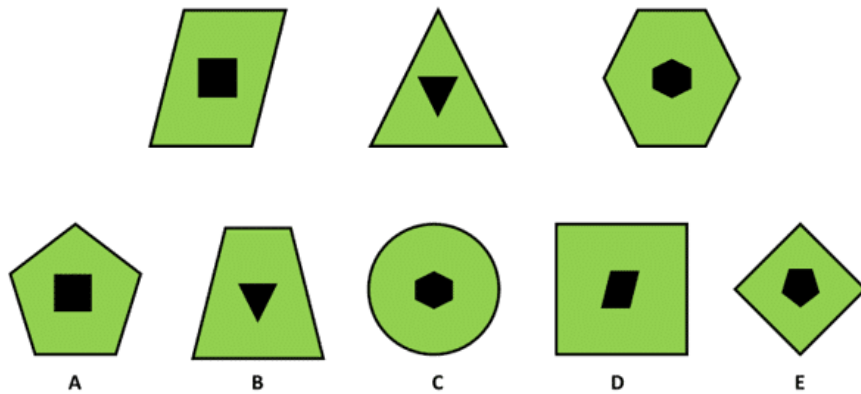
Choose the answer that goes in the empty box in the matrix following the same rule.



**Question #2**

**Figure Classification Practice Question**

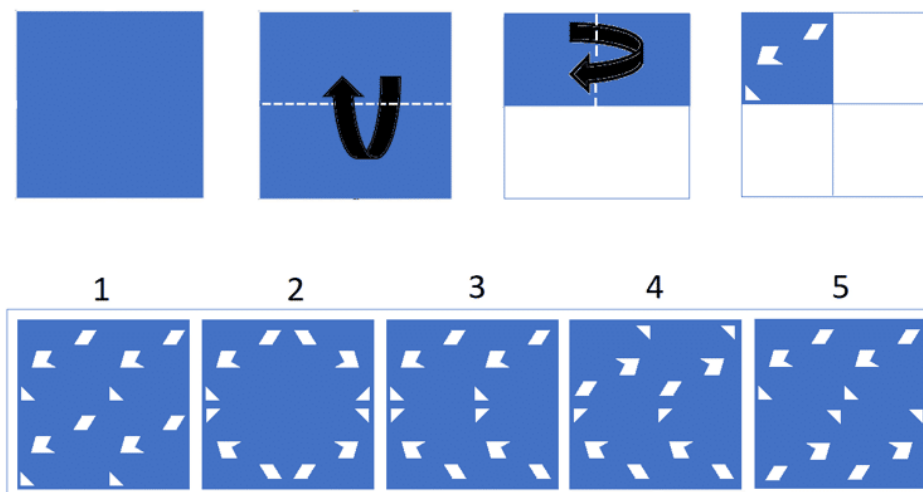
Figure Classification questions show three pictures that share a connection or a characteristic. Choose the answer that shares the same connection/characteristic from the answer choices.



**Question #3**

**Paper Folding Practice Question**

This question shows a paper folded several times and then punched with holes. The answer choices contain unfolded papers with punched-in holes. You need to determine which of the answer choices is the final product of the unfolded punched-in paper.





## CCAT Grade 5 Quantitative Battery Sample Questions

### Question #4

#### Number Analogies Practice Question

This question type provides two pairs of numbers with a certain mathematical connection and another number that shares that connection with one of the answer choices. Find the missing number for the third pair.

[12 → 6] [21 → 9] [45 → ?]

- A. 35
- B. 33
- C. 20
- D. 17
- E. 11

### Question #5

#### Number Series Practice Question

This question type provides a series of numbers that have a rule. Use the rule to determine which number will come next in the series.

2 12 6 36 18 108 54 ?

- A. 68
- B. 96
- C. 112
- D. 224
- E. 324



## Question #6

### Number Puzzles Practice Question

In each question, you are a set of equations. You must solve the equations to determine the number that goes **instead of the question mark**.

$$? = 50 - \blacklozenge$$

$$\blacklozenge = 2 \times \circ$$

$$\circ = 5 \times 3$$

- A. 35
- B. 30
- C. 40
- D. 20
- E. 45

## CCAT Grade 5 Verbal Battery Sample Questions

### Question #7

#### Verbal Analogies Practice Question

This question provides a pair of words that go together in a certain way and a third word. Choose a word from the answer choices that goes together with the third word in the same way.

**prevent → before : solution →**

- A. during
- B. primary
- C. after
- D. product
- E. cause



### Question #8

#### **Sentence Completion Practice Question**

Choose the word or words from the answer choices that best complete the sentence.

Penguins are well \_\_\_\_\_ for surviving in cold climates, as shown by their \_\_\_\_\_ bodies and dense layers of feathers.

- A. suited .. unprotected
- B. adapted .. streamlined
- C. ready .. awkward
- D. fragile .. powerful
- E. swift .. heavy

### Question #9

#### **Verbal Classification Practice Question**

This question type provides three words that are alike in some way. Decide how they are alike, and choose the word that belongs in the same group as the first three words.

**biology | zoology | psychology**

- A. science
- B. humans
- C. theology
- D. study
- E. botany

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# Correct Answers & Explanations

## Question #1

**Correct answer:** C

**Explanation:**

The shape on the right side is obtained using the following rules:

- The symbols in the middle of the side of the shape get mirrored on the opposite side.
- The symbols at the corners are duplicated in the diagonal corner.

Image C is the only figure that matches the pattern, therefore, it is the correct answer.

## Question #2

**Correct answer:** D

**Explanation:**

All three figures in this question contain a bigger outer shape with a smaller shape inside.

The number of sides of the outer shape is always equal to the number of sides of the inner shape.

Only option D meets the given criteria. Thus, this is the correct answer.



### Question #3

**Correct answer: 2**

**Explanation:**

- First, the square was folded vertically in half from bottom to top. Then, it is folded again in four quarters, from right to left. In this way, only the top-left quarter remains visible.
- Then, three holes were punched in the folded quarter: one triangle near the bottom-left corner, a kind of “boot” shape at the center-right, slightly more on the left than the middle, and a third shape (rhombus) near the top-right corner.
- Since the paper was folded in half twice, the holes were punched through four layers of paper. The holes will mirror both horizontally and vertically (first horizontally due left, then vertically down) according to the creases (the creases act as mirrors).
- Therefore, when the paper is unfolded, it will have twelve holes: 3 holes x 4 layers = 12 holes, as described above.

Hence, the correct answer is 2.

### Question #4

**Correct answer: 17**

**Explanation:**

Look for the pattern in the first series of numbers. We get from 12 to 6 by dividing by 3 and then adding 2 [ $\div 3 + 2$ ]. Indeed,  $12 \div 3 = 4 + 2 = 6$ .

Likewise, we get from 21 to 9 by dividing by 3 and then adding 2 [ $\div 3 + 2$ ]. Indeed,  $21 \div 3 = 7 + 2 = 9$ .

The next series of numbers should follow the same pattern, meaning that the rule between 45 and ? should be [ $\div 3 + 2$ ] as well:  $45 \div 3 = 15 + 2 = 17$ , meaning that the correct answer will be 17.



### Question #5

**Correct answer: 324**

**Explanation:**

In the series, the number is obtained by multiplying the previous number by 6 and dividing the previous number by 2 alternatively.

The sequence is  $2 \times 6 = 12$ ,  $12 / 2 = 6$ ,  $6 \times 6 = 36$ ,  $36 / 2 = 18$ ,  $18 \times 6 = 108$ ,  $108 / 2 = 54$  and  $54 \times 6 = 324$ .

### Question #6

**Correct Answer: 20**

**Explanation:**

**Step 1:** Solve for  $\circ$  using the third equation.

$$\circ = 5 \times 3$$

$$\circ = 15$$

**Step 2:** Substitute the value of  $\circ$  into the second equation.

$$\blacklozenge = 2 \times 15$$

$$\blacklozenge = 30$$

**Step 3:** Substitute the value of  $\blacklozenge$  into the first equation.

$$? = 50 - 30$$

$$? = 20$$

Therefore, the correct answer is 20.

### Question #7

**Correct answer: after**

**Explanation:**

One takes steps to prevent something before it happens. One has to choose or plan a solution after something has happened.

In this case, the first word (an abstract noun) is paired with an appropriate time period (the second word).



### Question #8

**Correct answer:** adapted .. streamlined

**Explanation:**

**“Well adapted”** means having features that help an animal survive in its environment.

Penguins have streamlined (smooth, tapered) bodies that let them glide through water and conserve heat, and they have dense feathers for insulation.

The other choices don't fit the meaning:

“unprotected” contradicts dense feathers; “awkward” is the opposite of streamlined; “fragile..powerful” conflicts; and “swift..heavy” don't explain survival in cold climates

### Question #9

**Correct Answer:** botany

**Explanation:**

Biology, zoology, and psychology are scientific fields that study living things or their behavior. Among the choices, botany is also a science (the study of plants).

Theology is a field of religious study, not a natural science.  
Science is a broad category, not a specific field.  
Individuals and humans are not fields of study.

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