# CogAT Grade 3

# PDF Sample Test

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# Practice Questions

**Question #1**

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.
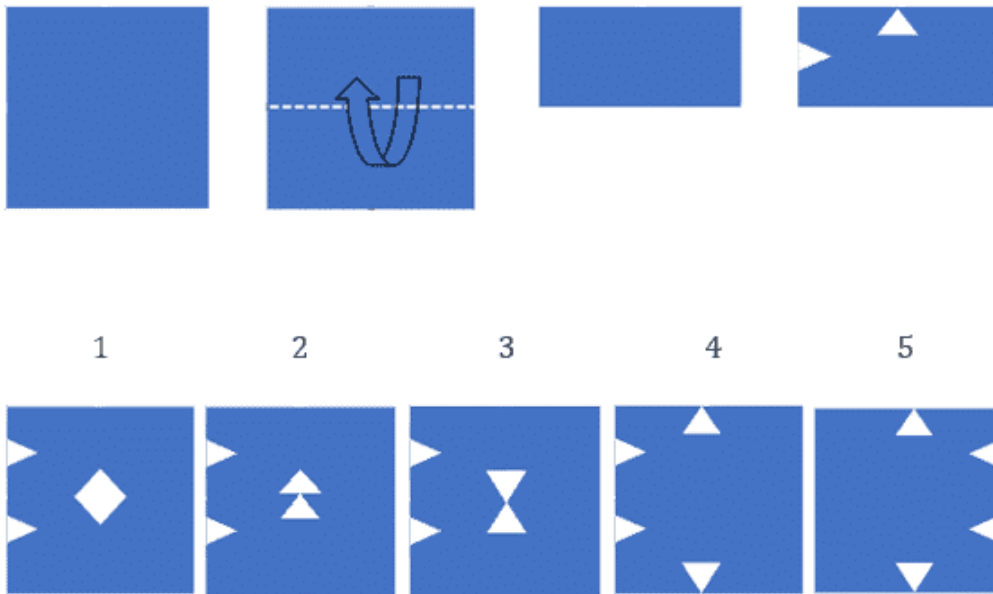


**Question #2**

This question 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.
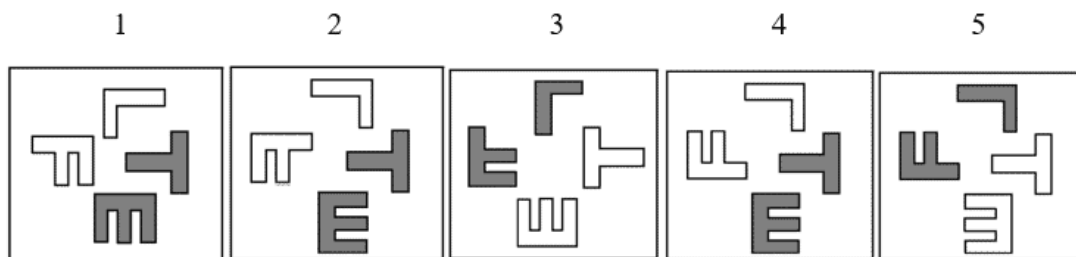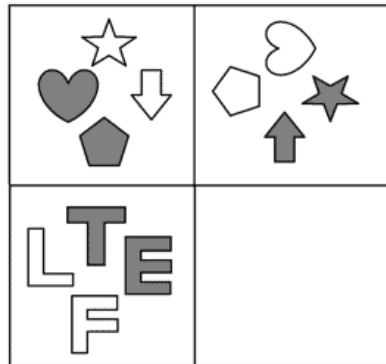
[16 → 29] [23 → 36] [57 → ?]

    **a)** 13
    **b)** 45
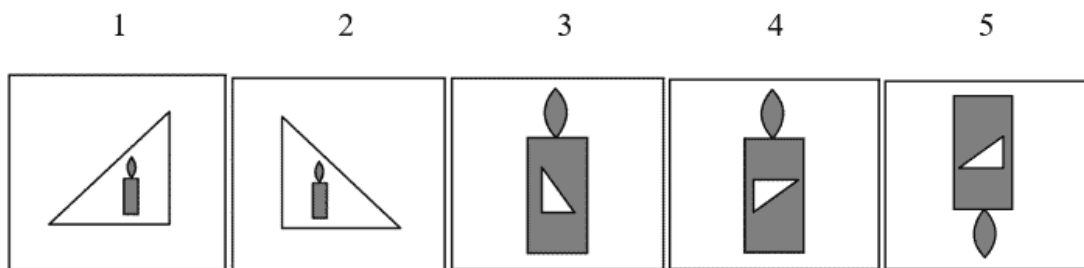    **c)** 55
    **d)** 60
    **e)** 70

## Question #3

Figure Matrix questions are 2x2 matrices comprised of different pictures. 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.



|   | 1 | 2 | 3 | 4 | 5 |
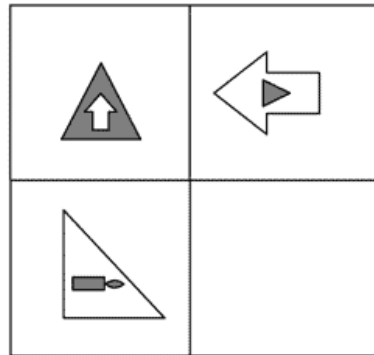
**Question #4**



**Question #5**

This Figure Classification question shows three pictures that share a connection or a characteristic. Choose the answer that shares the same connection/characteristic from the answer choices.

## Question #6

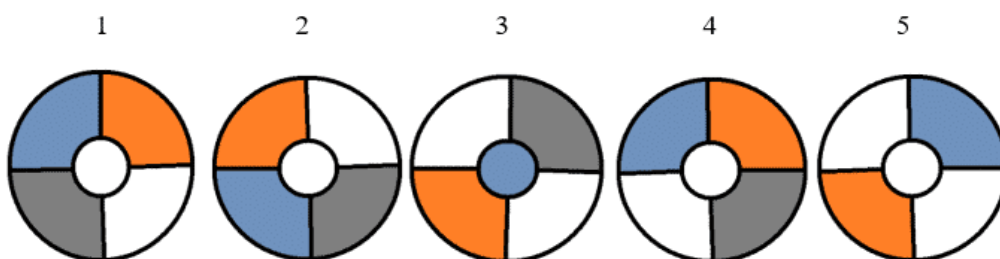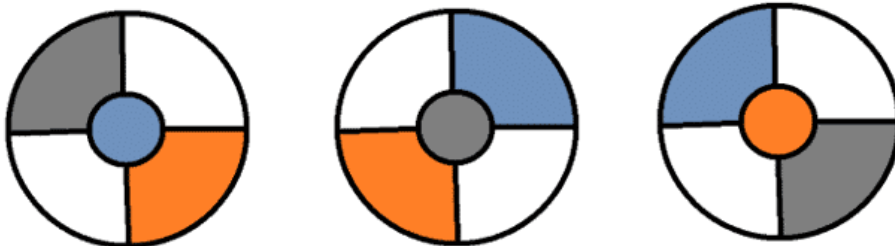This question provides a series of numbers that have a rule. Use the rule to determine which number will come next in the series.

**5   1   8   4   11   7   18   14   21   ?**

   **a)** 17
   **b)** 24
   **c)** 25
   **d)** 28
   **e)** 31

## Question #7

In this question, you are given an equation. You must solve the equations to determine the number that goes **instead of the question mark**.

**30 + 45 = ? + 20**

   **a)** 55
   **b)** 40
   **c)** 65
   **d)** 45
   **e)** 50

## Question #8

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.

**thermometer: degrees :: clock :**

   **a)** Numbers
   **b)** Fahrenheit
   **c)** Ticks
   **d)** Minutes
   **e)** Time

**Question #9**

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

**When the puppy arrived, everyone said it looked like its sibling, but I thought that was _____ and that it _____ its parent more.**

   **a)** surprising .. ignored
   **b)** strange .. avoided
   **c)** silly .. resembled
   **d)** correct .. disliked
   **e)** ridiculous .. copied

**Question #10**

This question 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.

**jacket   vest   shirt**

   **a)** shoes
   **b)** pants
   **c)** tie
   **d)** sock
   **e)** clothes

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# Correct Answers & Explanations

**Question #1**

**Correct answer:** 4

**Explanation:**

First, the square was folded in half from the bottom to the top side.

Then, two triangular holes are punched on the upper half-figure remaining after the folding process: one near the top center, the other at the middle-left part.

When the figure is unfolded, there will be four holes in total (2 holes x 2 layers = 4 holes) because each hole is punched on two different layers.

The holes are mirrored according to the horizontal crease, i.e. upside down. In this way, the upper central hole is mirrored to the bottom central part of the lower-half figure; and the middle-left hole is mirrored below, in the lower half of the original square. It does not change orientation.

**Question #2**

**Correct answer:** 70

**Explanation:**

Look for the pattern in the first series of numbers. We get from 16 to 29 by adding 13 (the pattern is +13).

Likewise, we get from 23 to 36 by using the same pattern (rule) +13.

The next series of numbers should follow the same pattern, meaning that the rule between 57 and ? should be +13 as well: 57 + 13 = 70, meaning that the correct answer will be 70.

**Question #3**

**Correct answer:** 3

**Explanation:**

The pattern that connects the left figure in the first row to the right one in the same row is the following:

All shapes move from the original position by making one quarter a rotation clockwise.

The grey shapes become white and vice-versa (i.e. they swap colors). The once (now grey) shapes make one-quarter a rotation anticlockwise around themselves while the once white (now grey) shapes flip vertically.

The only figure that fits this description is option 3.

Therefore, 3 is the correct answer.

**Question #4**

**Correct answer:** 4

**Explanation:**

The pattern that connects the left figure in the first row to the right one in the same row is the following:

The inner shape becomes the outer shape and the outer shape becomes the inner shape.

Moreover, the initial outer shape makes a quarter a rotation clockwise, while the initial inner shape makes a quarter a rotation anticlockwise.

The only figure in the options that fits the description for the empty place is the 4th one.

Therefore, the correct answer is 4

## Question #5

**Correct answer:** 3

**Explanation:**

The pattern is: All circles contain four colors: white, orange, blue, and gray, where the small central circle is not white while two other sections around the small central circle are white, and the other two are blue and orange.

The only choice that meets this description is the 3rd one.

## Question #6

**Correct answer:** 17.

**Explanation:**

In this series, the pattern is as follows: first, 4 is subtracted, then 7 is added; then again 4 is subtracted, then 7 is added, and so on.

The pattern is: -4, +7, -4, +7, …

The last two numbers in the series are 14 and 21. Since 21 is larger than 14 by 7, the next number in the series should be smaller than 21 by 4.

21 – 4 = 17

## Question #7

**Correct answer:** 55

**Explanation:**

We need to find the number that goes in place of the question mark to make both sides of the equation equal.

This is what we know:

30 + 45 = ? + 20

First, we simplify the left side of the equation by adding 30 and 45 together. Why do we do this? Because simplifying the left side allows us to compare both sides of the equation.

  30

+ 45

———

  75

Now, the equation becomes:

75 = ? + 20

Next, to find the missing number, we use subtraction. Why subtraction? Because we already know the total on the left side (75) and part of the right side (20). Subtracting 20 from 75 will tell us the missing number.

Let's subtract 20 from 75:

  75

– 20

———

  55

So, the number that goes in place of the question mark is 55.

## Question #8

**Correct answer:** minutes

**Explanation:**

The correct answer is minutes. A thermometer measures the temperature using degrees. A clock presents the time in minutes. In this case, the first word (a noun) requires the measuring unit (the second word).

**Question #9**

**Correct Answer:** silly .. resembled

**Explanation:**

The sentence expresses disagreement with the popular opinion about the puppy's appearance. "Silly" fits best to describe the disagreement, and "resembled" is the best fit to indicate the similarity to its parent.

Other options, like "ignored" or "avoided," do not make sense in the context of appearance.

**Question #10**

**Correct Answer:** tie

**Explanation:**

A jacket, a vest, and a shirt are all clothing worn above the waste. A tie is also worn above the waste.

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