



CogAT Grade 5

PDF Sample Test

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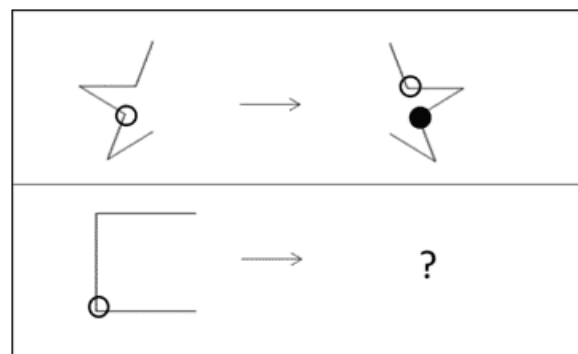
* The correct answers and explanations are located at the end of this PDF.

Practice Questions

Question #1

Figure Matrix questions are either 2x2 or 3x3 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.



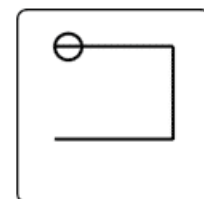
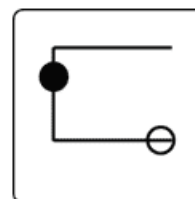
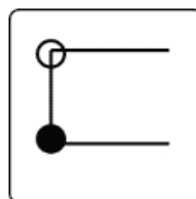
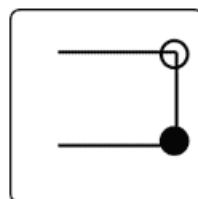
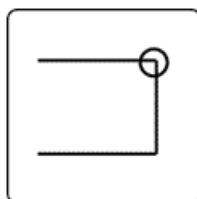
1

2

3

4

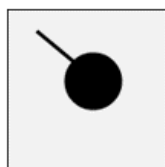
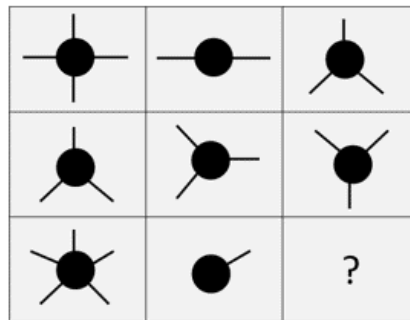
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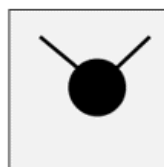
Question #2

Figure Matrix questions are either 2×2 or 3×3 matrices comprised of different pictures. In each row and/or column, the pictures change in the same way or follow the same rule.

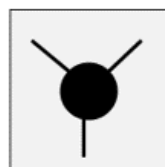
Choose the answer that goes in the empty box in the matrix following the same rule.



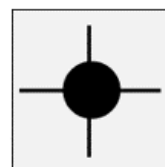
A



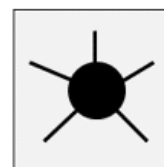
B



C



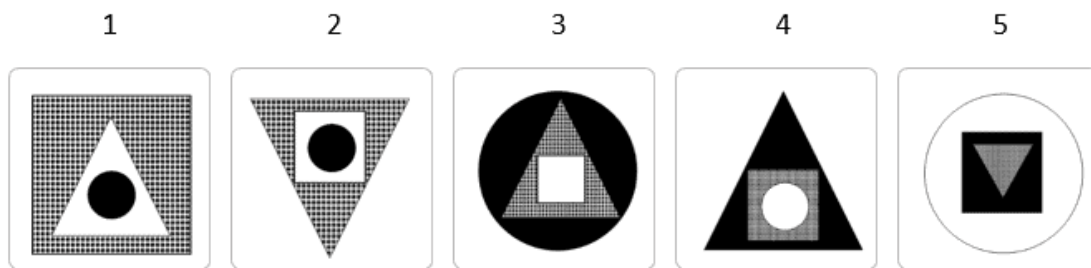
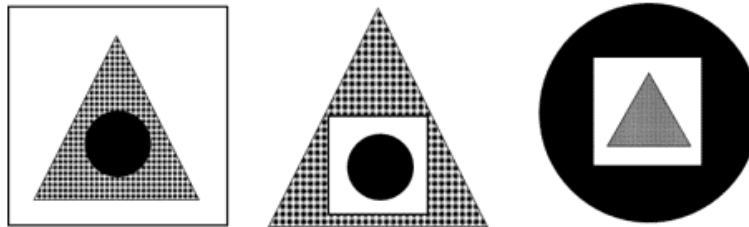
D



E

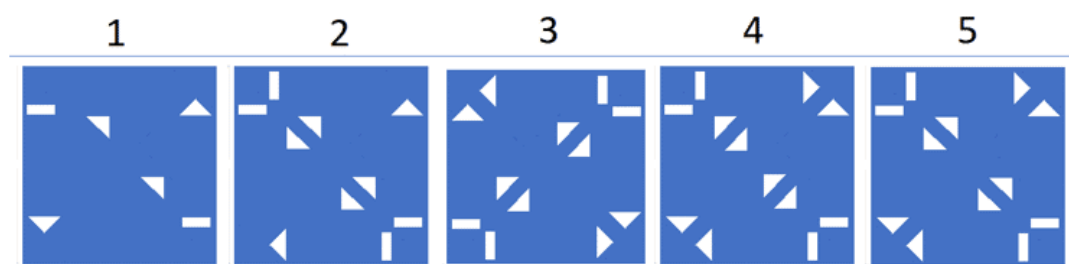
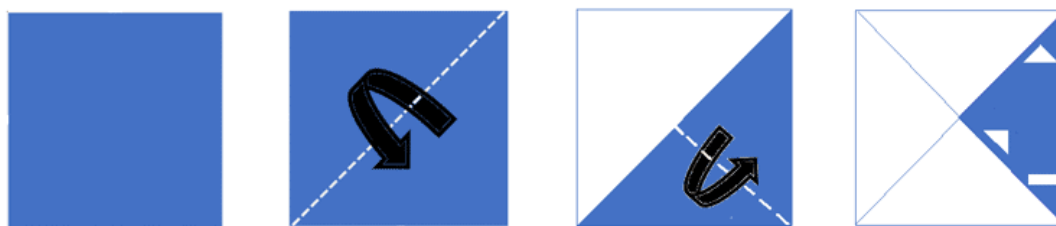
Question #3

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 #4

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 #5

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.

[15 → 31] [21 → 49] [25 → ?]

- a) 16
- b) 28
- c) 43
- d) 49
- e) 61

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.

53 66 78 89 99 108 ?

- a) 109
- b) 113
- c) 107
- d) 112
- e) 116

Question #7

In this question, you are given one or more equations. You must solve the equations to determine the number that goes instead of the question mark.

$$? = \star + 7$$

$$14 = \star - \bullet$$

$$\bullet = 4$$

- a) 19
- b) 25
- c) 17
- d) 21
- e) 16



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.

flowers → bouquet : pages →

- a) work
- b) library
- c) book
- d) computer
- e) entertainment

Question #9

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

Roger had always believed it was _____ to follow the rules, except when a better option arises, at which point it is best to _____ the decision-maker.

- a) wise .. inform
- b) foolish .. ignore
- c) logical .. dismiss
- d) unnecessary .. challenge
- e) crucial .. avoid

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.

wall fingernails car

- a) color
- b) house
- c) choose
- d) fade
- e) brighten

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Correct Answers & Explanations

Question #1

Correct Answer: 2

Explanation:

The figure on the left is flipped horizontally on the right. Also, the circle is now dark.

One new circle has been added to the figure: A white circle in the corner above it.

We can eliminate answer choices 3 and 4 because they are positioned in the same way as the first shape (bottom row left side).

When we look at the other three answer choices, we see that only answer choice 2 matches the pattern.

Notice that answer choice 1 includes nearly all the necessary changes, but it is without a dark circle.

Therefore the 2nd answer choice is the correct answer.

Question #2

Correct Answer: C

Explanation:

Identify the image that completes the pattern by examining how the series of shapes change across the rows and down the columns within the matrix.

Across each row, the number of lines jetting out of the circle is 9 in total.



In row three, 6 lines are already available so the last column must contain a shape with three lines jetting out.

So, it makes answer (C) correct.

Question #3

Correct Answer: 3

Explanation:

In this question you can see that:

- All figures consist of three different shapes: a triangle pointing upward, a square, and a circle.
- Each shape is filled differently and consistently: the triangle is checkered, the square is white, and the circle is black.

Answer choice 3 consists of a checkered triangle pointing upward, a black circle, and a white square. Therefore, this is the correct answer.

You can eliminate answers 2 and 5 immediately as the triangle is pointing down instead of upward.

You are now left with answers 1, 3, and 4. In answers 1 and 4, the square is checkered and the triangle is white/black, while in each of the top figures the square is white and the triangle is checkered.

Therefore, answer 1 and 4 are incorrect and you are left with answer 3.

Question #4

Correct Answer: 5

Explanation:

First, the square was folded diagonally in half from top-left to bottom-right corners.

Then the remaining half is folded again in half (i.e. in quarters of the original figure) from bottom-left to top-right. In this way, only the right quarter of the original shape is now visible.

Then, three holes were punched in the folded section: one triangle near the top-right corner, another triangle near the central part, slightly below it, and a third (rectangular) hole near the bottom-right corner.



Since the paper was folded in half twice, the holes were punched through four layers of paper. The holes will mirror diagonally twice; first from right to bottom, then from bottom-right to top-left.

As a result, the shapes will first make one quarter a rotation clockwise, then a diagonal flip when mirrored according to the creases.

Therefore, when the paper is unfolded it will have twelve holes: 3 holes \times 4 layers = 12 holes, as described above, where the diagonal creases will act as mirrors. In this way, we obtain the last figure in the options.

Hence, the correct answer is 5.

Question #5

Correct Answer: E

Explanation:

Look for the pattern in the first series of numbers. We get from 15 to 31 by multiplying by 3 and then, subtracting 14 (the pattern is $\times 3 - 14$). Indeed, $15 \times 3 = 45 - 14 = 31$.

Likewise, we get from 21 to 49 by using the same pattern (rule) ($\times 3 - 14$). Indeed, $21 \times 3 = 63 - 14 = 49$.

The next series of numbers should follow the same pattern, meaning that the rule between 25 and ? should be ($\times 3 - 14$) as well: $25 \times 3 - 14 = 61$, meaning that the correct answer will be 61.

? = 61.

Question #6

Correct Answer: E

Explanation:

In the series, the next number is obtained by adding 13 to the previous number in the first turn, then adding 12 to the previous number in the second turn, and so on.

The number added to get the next number decreases by 1 with each turn. The sequence is $53+13=66$, $66+12=78$, $78+11=89$, $89+10=99$, $99+9=108$ and $108+8=116$.

Question #7



Correct Answer: B

Explanation:

Let's start by solving the third equation:

$$\bullet = 4$$

Now we use this value in the second equation:

$$14 = \star - \bullet$$

$$14 = \star - 4$$

Add 4 to both sides to find \star :

$$\star = 14 + 4 = 18$$

Now use this value for \star in the first equation:

$$? = \star + 7$$

$$? = 18 + 7 = 25$$

So, the correct number that goes in place of "?" is 25.

Question #8

Correct Answer: C

Explanation:

Flowers combine to form a bouquet. Pages combine to form a book.

In this case, the first word (individual components/noun) combine to form the second word (a noun). The first word represents parts of a whole.

Question #9

Correct Answer: A

Explanation:

Explanation: The sentence suggests that Roger typically values following rules unless there is a better choice, in which case it's best to inform the person in charge. "Wise" and "inform" are the best fit. Other options are incorrect because:



Foolish .. ignore: Ignoring the person in charge is not a preferred approach.

Logical .. dismiss: Dismissing someone contradicts the idea of respectfully informing them.

Unnecessary .. challenge: Challenging isn't a constructive approach here.

Crucial .. avoid: Avoiding the person doesn't fit the context of informing them.

Question #10

Correct Answer: B

Explanation:

The correct answer is house.

A wall, fingernails, a car, and a house are all things one might paint.

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