



CogAT Grade 4

PDF Sample Test

Downloadable Practice Test with Answers – Get a Feel for the
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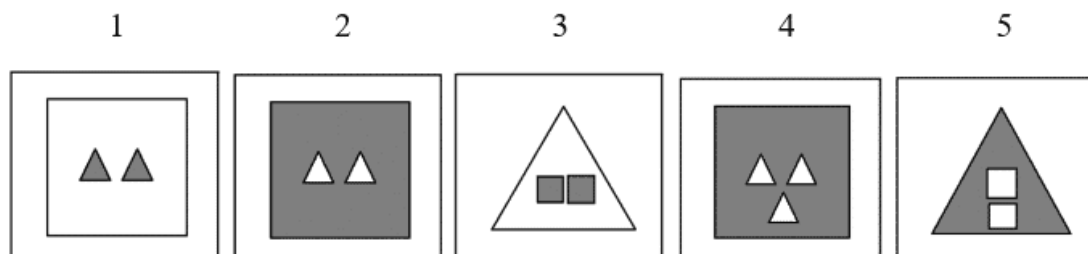
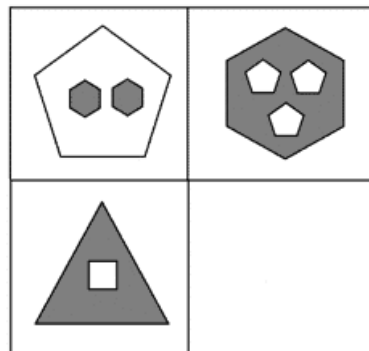
* The correct answers and explanations are located at the end of this PDF.

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.

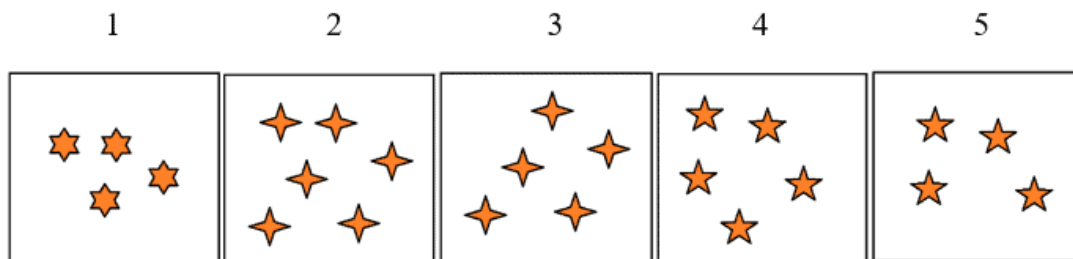
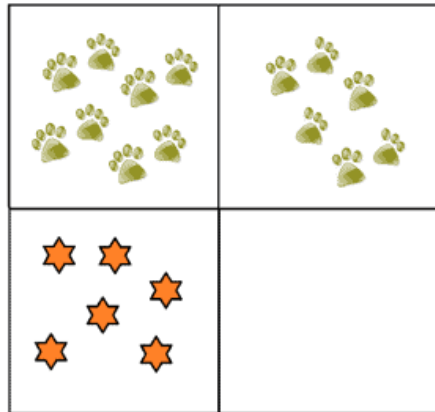
Choose the answer that goes in the empty box in the matrix following the same rule.



Question #2

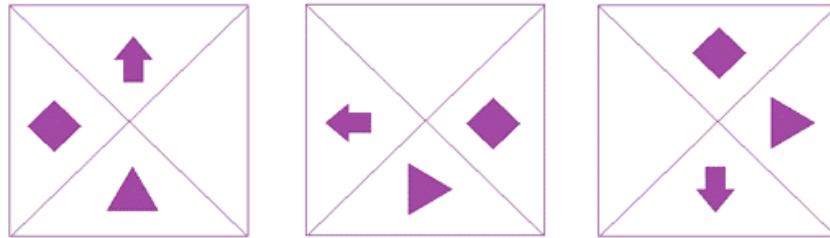
Figure Matrix questions are either 2×2 or 3×3 matrices comprised of different pictures. In each row and/or column, the pictures change in the same way or follow the same rule.

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



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.



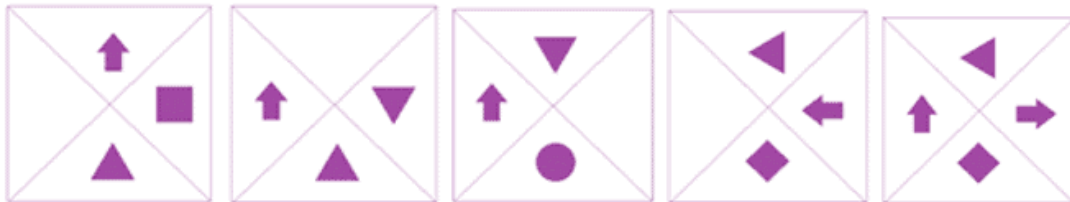
1

2

3

4

5



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.

[25 → 6] [38 → 19] [83 → ?]

- a) 9
- b) 19
- c) 62
- d) 64
- e) 74



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.

43 36 34 27 25 18 16 ?

- a) 23
- b) 14
- c) 9
- d) 7
- e) 0

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**.

$$? - \diamond = 18$$

$$\diamond = 5$$

- a) 20
- b) 22
- c) 24
- d) 23
- e) 18

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.

scurry → mouse : slither → ?

- a) rat
- b) snake
- c) lizard
- d) bird
- e) worm



Question #9

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

As she presented her project to the large ____, her voice ____.

- a) group .. cried
- b) teacher .. calmed
- c) class .. laughed
- d) audience .. faltered
- e) room .. sang

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.

string rope shoelace

- a) present
- b) hold
- c) fastener
- d) ribbon
- e) tight

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Correct Answers & Explanations

Question #1

Correct answer: 1

Explanation:

By looking at the first row, it is clear that the outer (big) shape becomes the inner (small) shape and vice-versa. Moreover, the number of inner shapes increases by 1.

The color of the shapes does not change but since the smaller ones become bigger and vice-versa, the colors in the whole figure swap in respect to the other figure of that row.

The only option that fits this description is the 1st one.

Therefore, 1 is the correct answer.

Question #2

Correct answer: 5

Explanation:

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

The number of items (animal feet in the first row and stars in the second row) decreases by 2 when moving from left to right, while the number of elements in each item (fingers in the first row and star point in the second row) decreases by 1 when moving from left to right.

Given this description, it is clear that the empty place must contain $6 - 2 = 4$ stars, which have $6 - 1 = 5$ points each. The only option that fits this description is the 5th one.

The answer is therefore 5.



Question #3

Correct answer: 4

Explanation:

In this question all three figures are white squares; each of which contains three purple shapes: a diamond, a triangle, and an arrow.

The only answer choice that is like this is the 4th choice.

The 1st choice is incorrect as it contains a square and no diamonds.

The 2nd choice is incorrect as it contains two triangles and no diamond.

The 3rd choice is also incorrect as it contains a circle instead of a diamond.

Lastly, the 5th choice is incorrect as it contains four shapes instead of three (an extra arrow).

Therefore, the 4th choice is the correct answer.

Question #4

Correct answer: 2

Explanation:

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

Then, three holes are punched on the upper half-figure remaining after the folding process: one triangle near the bottom-left section, the other (triangle) right part. The third hole is a half-circle at the top-central part of the half-shape.

When the figure is unfolded, there will be six holes in total (3 holes x 2 layers = 6 holes) because each hole is punched on two different layers. However, two of them merge (the left ones), so you will see five holes after unfolding the figure.

The holes are mirrored according to the horizontal crease, i.e. upside down. In this way, the half-circle shape is mirrored to the bottom center inverted upside down; and the triangles are mirrored vertically down.



Question #5

Correct answer: D

Explanation:

Look for the pattern in the first series of numbers. We get from 25 to 6 by subtracting 19 (the pattern is -19).

Likewise, we get from 38 to 19 by using the same pattern (rule) -19.

The next series of numbers should follow the same pattern, meaning that the rule between 83 and ? should be -19 as well: $83 - 19 = 64$, meaning that the correct answer will be 64.

Question #6

Correct answer: C

Explanation:

In this series, the pattern is as follows: first, 7 is subtracted, then 2 is subtracted; then 7 is subtracted again, then 3, and so on.

The pattern is: -7, -2, -7, -2, ...

The last two numbers in the series are 18 and 16, where 16 is smaller than 18 by 2, so the next number in the series should be smaller than 16 by 7.

$$16 - 7 = 9$$

Question #7

Correct answer: D

Explanation:

We need to find the missing number (represented by "?") that, when 5 is subtracted from it, equals 18.

Step 1: Use the value of \diamond

The equation is:



$$? - \diamond = 18$$

We are told that \diamond equals 5, so we substitute that value into the equation:

$$? - 5 = 18$$

Step 2: Solve for the missing number

To find the missing number, we add 5 to 18:

$$18 + 5 = 23$$

So, the missing number is 23.

Question #8

Correct answer: B

Explanation:

The correct answer is snake.

This analogy demonstrates a characteristic movement associated with an animal. Scurry describes the quick movement of a mouse, while slither describes the movement of a snake.

Question #9

Correct answer: D

Explanation:

The sentence suggests that she felt nervous, and her voice faltered during the presentation. "Audience" and "faltered" best capture the context. Other combinations, like "room .. sang," don't fit as well.



Question #10

Correct answer: D

Explanation:

A string, rope, shoelace, and ribbon can hold things in place or fasten them.

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