Mama's Genius

CAT4 Level B
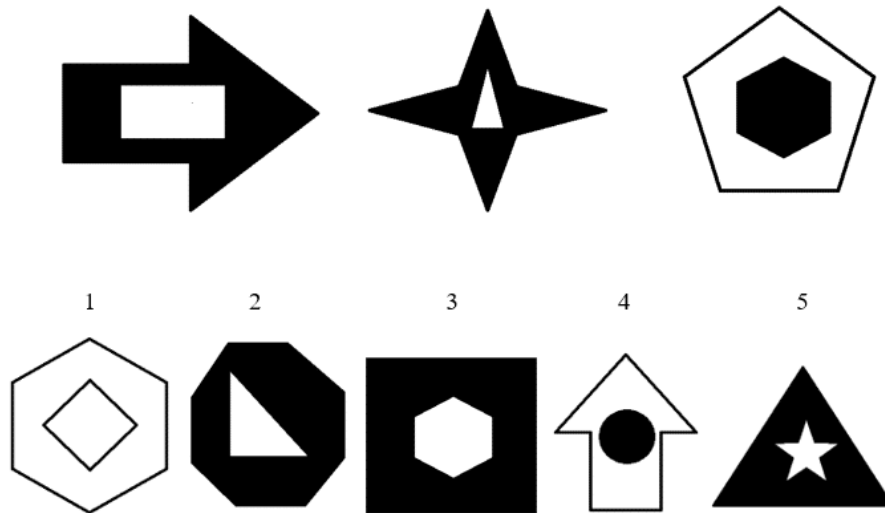# Free Practice Test

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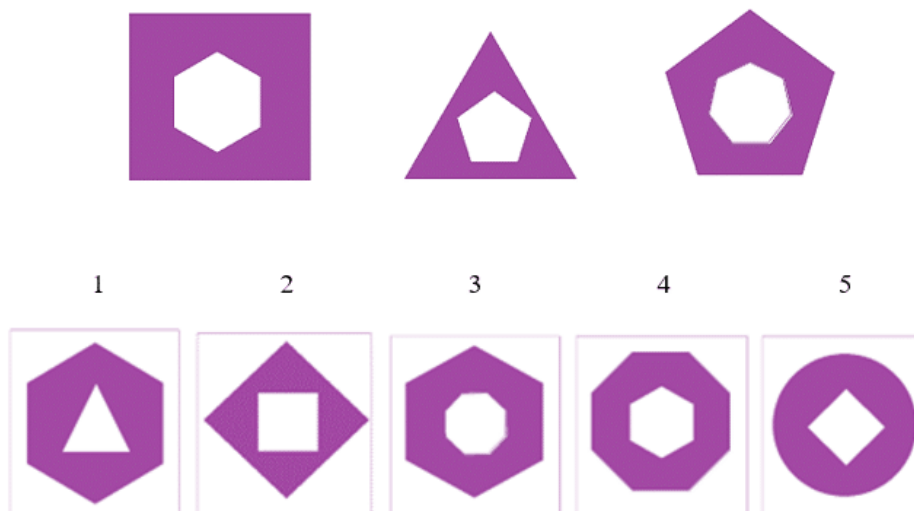
Part 1

#1 Figure Classification Question

Choose the answer that shares the same connection/characteristic as the three given images.
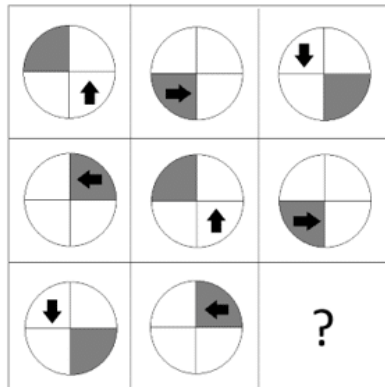

#2 Figure Classification Question

#3 Figure Matrices Question

Figure Matrix questions are either 2x2 or 3x3 matrices comprised of different pictures. In each row and/or column the pictures change the same way or follow the same rule. Choose an answer that goes in the empty box in the matrix following the same rule.
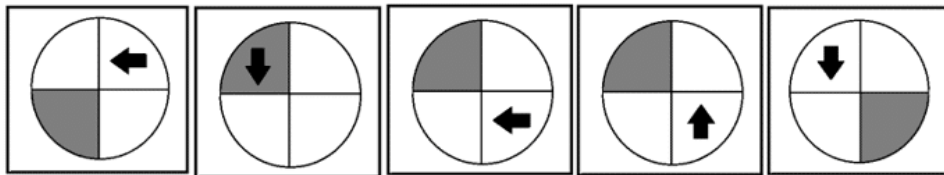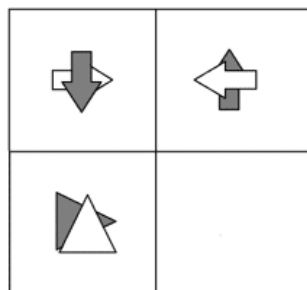

1	2	3	4	5

#4 Figure Matrices Question
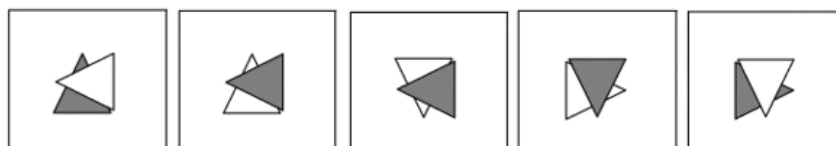

1	2	3	4	5

Part 2

#5 Verbal Classification Question

Each 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.

leaves | frogs | kiwi

1. grass
2. flowers
3. soil
4. vegetation
5. garden

#6 Verbal Classification Question

blanket | sheet | pillow

1. sleep
2. bed
3. comfort
4. nap
5. mattress

#7 Verbal Analogy Question

The first pair of words go together in a certain way. Choose the word that goes together with the third word similarly.

frown: sadness :: laughter :

1. noise
2. celebrate
3. joy
4. smile
5. enjoy

#8 Verbal Analogy Question

antagonist: story :: musician :

1. music
2. band
3. entertainment
4. dialogue
5. person

#9 Number Analogy Question

Each 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.

[24 → 2] [60 → 5] [84 → ?]

(1) 7
(2) 9
(3) 12
(4) 16
(5) 24

#10 Number Analogy Question

[2 → 6] [5 → 15] [20 → ?]

(1) 23
(2) 30
(3) 33
(4) 60
(5) 80

Part 3

#11 Number Series Question

Each question provides a series of numbers with a rule. Use the rule to determine which number will come next in the series.

3   9   10   16   17   23   24   ?

(1) 1
(2) 6
(3) 25
(4) 29
(5) 30

#12 Number Series Question

6   5   14   13   22   21   30   29   38   ?

(1) 34

(2) 37

(3) 39

(4) 47

(5) 49

#13 Figure Analysis Question

Each 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.
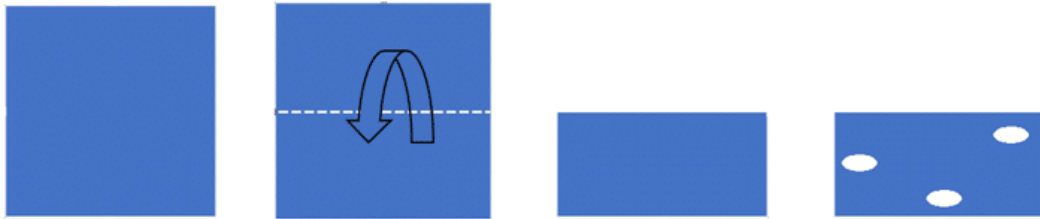
1   2   3   4   5

#14 Figure Analysis Question

1   2   3   4   5
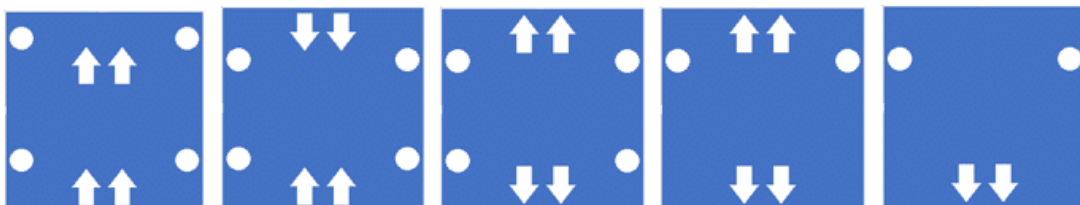
#15 Figure Recognition Question
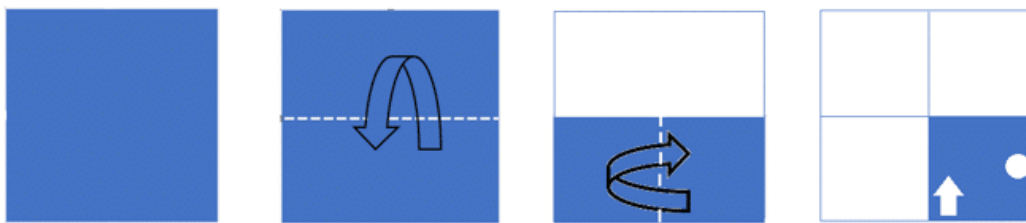
Each question shows a shape alongside five answer choices containing complex designs. You must choose the design that contains the target shape in the same size, including each side in full.

#16 Figure Recognition Question

Keep practicing and improving your skills – get more accurate practice resources for the CAT4 Level B to help your child prepare and score high.

Answer Key & Explanations

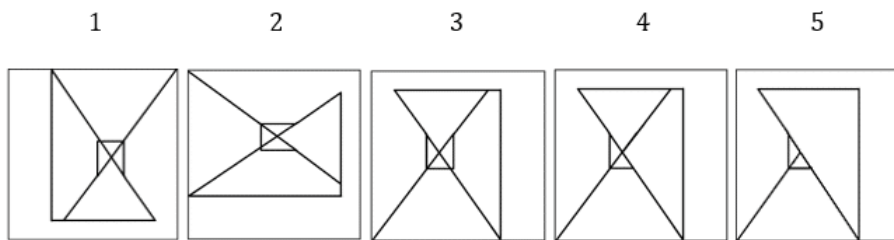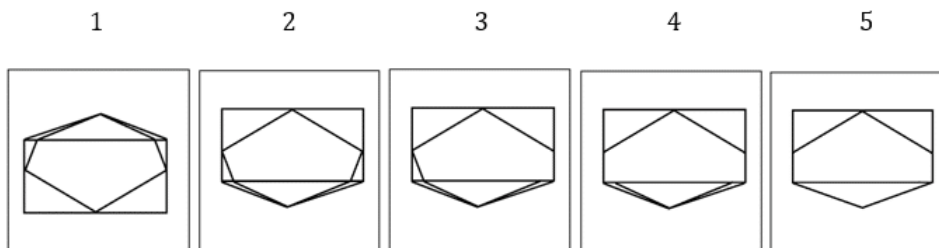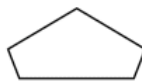| #1	#2	#3	#4	#5	#6	#7	#8
2	3	4	3	1	5	3	2
#9	**#10**	**#11**	**#12**	**#13**	**#14**	**#15**	**#16**
1	4	5	2	5	2	3	2

#1 Figure Classification Question Explanation

The correct answer is **2**.

The pattern in the three original figures is: The total number of sides of the component shapes is always equal (11), and the black shape has the most number of sides.

Option 1 is wrong, as it does not have a black shape.

Option 3 is wrong, as the total number of sides is 10, not 11.

Option 4 is wrong, as the total number of sides is 8 (7 the arrow & 1 the circle).

Option 5 is wrong, as the total number of sides is 13, and the black shape has the least number of sides of the two.

Therefore, the correct answer is 2, as it contains 8 + 3 = 11 sides, and the black shape has the most number of sides (8).

#2 Figure Classification Question Explanation

The correct answer is **3**.

In this question, we can see that:
All three figures are comprised of **a purple shape and a white shape**.
The white shapes are in the **middle** of the corresponding purple shapes.
Every purple shape has **two sides less** than the corresponding white shape in the **middle**.

We can see that in the 3rd answer choice, the purple shape has **six sides**, while the corresponding white shape in the **middle** has **eight sides**. This means that the shape in the **middle** has **two sides more** than the shape **surrounding** it.

Therefore, the **3rd** answer choice is the correct answer.

#3 Figure Matrices Question Explanation

The correct answer is **4**.

There are three patterns in this question.

1- The grey quarter of the circle shifts by one position anticlockwise when moving from left to right in a row.

2- The black arrow shifts by one position clockwise when moving from left to right in a row.

3- The orientation of the black arrow changes by making one-quarter a rotation clockwise when moving from left to right in a row.

The fourth one is the only choice that meets all these three conditions when considering the shape on the left of the question mark.

#4 Figure Matrices Question Explanation

The correct answer is **3**.

The pattern that connects the left figure in the first row to the right one in the same row is the following: Both shapes make half a rotation and change placement in the sense that the top shape becomes the bottom one and vice-versa.

The only figure in the options that fits this description is the 3rd one. Therefore, the answer is 3.

#5 Verbal Classification Question Explanation

The correct answer is **1** - grass. Leaves, frogs, and kiwis are all green. Grass is also green.

#6 Verbal Classification Question Explanation

The correct answer is **5** - mattress. A blanket, sheet, and pillow are all found on a bed. A mattress is also found on a bed.

#7 Verbal Analogy Question Explanation

The correct answer is **3** - joy. A frown is a physical expression of sadness. Laughter is a physical expression of joy.

#8 Verbal Analogy Question Explanation

The correct answer is **2 - band**. An antagonist is part of a story. A musician is part of a band. The initial noun is paired with something it is part of (the second noun).

#9 Number Analogy Question Explanation

The answer is **(1)**.

Look for the pattern in the first series of numbers. We get from 24 to 2 by subtracting 22 or dividing by 12 (the possible pattern is -22 or ÷12).

We get from 60 to 5 by dividing by 12 (÷12) or by subtracting 55 (-55). Since there must be the same pattern in both pairs, it is clear that the correct pattern, in this case, is (÷12).

The next series of numbers should follow the same pattern, meaning that the rule between 84 and **?** should be ÷12 as well: **84 ÷ 12 = 7**, meaning that the correct answer will be 7.

#10 Number Analogy Question Explanation

The answer is **(4)**.

Look for the pattern in the first series of numbers. We get from 2 to 6 by adding 4 or multiplying by 3 (the possible pattern is +4 or ×3).

We get from 5 to 15 by adding 10 (+10) or multiplying by 3 (×3). Since there must be the same pattern in both pairs, it is clear that the correct pattern in this case is (×3).

The next series of numbers should follow the same pattern, meaning that the rule between 20 and **?** should be ×3 as well: **20 × 3 = 60**, meaning that the correct answer will be 60.

#11 Number Series Question Explanation

The correct answer is **(5)**.

In this series, the pattern is as follows: first, 6 is added. Then 1 is added, then 6 again, then 1, and so on.

The pattern is **+6, +1, +6, +1, ...**

The last two numbers in the series are 23 and 24, where 24 is larger than 23 by 1, so the next number in the series should be larger than 24 by 6.

24 + 6 = 30

#12 Number Series Question Explanation

The correct answer is **(2)**.

In this series, the pattern is as follows: first, 1 is subtracted, then 9 is added; then again 1 is subtracted, then 9 is added, and so on.

The pattern is: **-1, +9, -1, +9, ...**

The last two numbers in the series are 29 and 38, where 38 is *larger* than 29 by 9, so the next number in the series should be *smaller* than 38 by 1.

38 - 1 = 37

#13 Figure Analysis Question Explanation

The correct answer is **5**.

- First, the square was folded **in half** from the top to the bottom.
- Then, three holes are punched on the lower half-figure remaining after the folding process: one near the left side at middle height, the other at the bottom side at its middle length, and the third, at the top right corner of the half-figure, near the crease.
- When the figure is unfolded, there will be six holes in total because each hole is punched on two different layers. The holes are mirrored according to the horizontal crease. In this way, the central-left hole of the bottom half figure is mirrored at the central-left hole of the upper half figure; the bottom-middle hole is mirrored to the top-middle hole and the right hole slightly below the crease will be mirrored to the right hole slightly above the crease.

The correct answer is, therefore, 5.

#14 Figure Analysis Question Explanation

The correct answer is **2.**

- First, the square was folded **in half, then in two other halves, i.e. in quarters**, first from top to bottom, then from left to right.
- Then, two holes are punched into the figure remaining after the double folding process (the bottom-right quarter): one arrow pointing up is punched near the left crease, and the other is a circular hole near the middle of the right side.
- When the figure is unfolded, there will be eight holes in total (2 holes x 4 layers = 8 holes) because each hole is punched on four different layers.
- The holes are mirrored according to the horizontal and vertical crease, they will appear in the following way: two adjacent arrows near the middle of the lower side pointing up; two other adjacent arrows near the middle of the upper side pointing down, and four circular holes near the lateral sides at the same distance from the horizontal crease and the horizontal sides.

#15 Figure Recognition Question Explanation

The correct answer is **3**.

The original figure is a kind of hinge or a square with another trapezoid-like shape that widens above. You must be careful to understand which option also fits this shape's orientation.

Do not get confused by the extra shapes mixed with the correct one.

Thus, from a careful look, the only figure in the options that fits the above description is the 3rd one.

#16 Figure Recognition Question Explanation

The correct answer is **2**.

The original figure is a kind of pentagon (a figure with 5 sides) where the bottom side is horizontal, and a corner is on top of the figure. You must be careful to understand which option fits the orientation and the size of this shape as well when choosing the option.

Thus, from a careful look, the only figure in the options that fits the above description is the 2nd one.

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