

# LETTER AND SYMBOL SERIES

In these series, you will be looking at both the letter pattern and the number pattern. Fill the blank in the middle of the series or end of the series.

1. SCD, TEF, UGH, \_\_\_\_\_, WKL

- A. CMN
- B. UJI
- C. VIJ
- D. IJT

**Answer:** Option C

**Explanation:**

There are two alphabetical series here. The first series is with the first letters only: STUVW. The second series involves the remaining letters: CD, EF, GH, IJ, KL.

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2. B<sub>2</sub>CD, \_\_\_\_\_, BCD<sub>4</sub>, B<sub>5</sub>CD, BC<sub>6</sub>D

- A. B<sub>2</sub>C<sub>2</sub>D
- B. BC<sub>3</sub>D
- C. B<sub>2</sub>C<sub>3</sub>D
- D. BCD<sub>7</sub>

**Answer:** Option B

**Explanation:**

Because the letters are the same, concentrate on the number series, which is a simple 2, 3, 4, 5, 6 series, and follows each letter in order.

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3. FAG, GAF, HAI, IAH, \_\_\_\_\_

- A. JAK
- B. HAL
- C. HAK
- D. JAI

**Answer:** Option A

**Explanation:**

The middle letters are static, so concentrate on the first and third letters. The series involves an alphabetical order with a reversal of the letters. The first letters are in alphabetical order: F, G, H, I, J. The second and fourth segments are reversals of the first and third segments. The missing segment begins with a new letter.

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4. ELFA, GLHA, ILJA, \_\_\_\_\_, MLNA

A. OLPA

B. KLMA

C. LLMA

D. KLLA

**Answer:** Option D

**Explanation:**

The second and forth letters in the series, L and A, are static. The first and third letters consist of an alphabetical order beginning with the letter E.

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5. CMM, EOO, GQQ, \_\_\_\_\_, KUU

A. GRR

B. GSS

C. ISS

D. ITT

**Answer:** Option C

**Explanation:**

The first letters are in alphabetical order with a letter skipped in between each segment: C, E, G, I, K. The second and third letters are repeated; they are also in order with a skipped letter: M, O, Q, S, U.

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6. ZA<sub>5</sub>, Y<sub>4</sub>B, XC<sub>6</sub>, W<sub>3</sub>D, \_\_\_\_\_

A. E<sub>7</sub>V

B. V<sub>2</sub>E

C. VE<sub>5</sub>

D. VE<sub>7</sub>

**Answer:** Option D

**Explanation:**

There are three series to look for here. The first letters are alphabetical in reverse: Z, Y, X, W, V. The second letters are in alphabetical order, beginning with A. The number series is as follows: 5, 4, 6, 3, 7.

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7. QPO, NML, KJI, \_\_\_\_\_, EDC

A. HGF

B. CAB

C. JKL

D. GHI

**Answer:** Option A

**Explanation:**

This series consists of letters in a reverse alphabetical order.

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8. JAK, KBL, LCM, MDN, \_\_\_\_\_

A. OEP

B. NEO

C. MEN

D. PFQ

**Answer:** Option B

**Explanation:**

This is an alternating series in alphabetical order. The middle letters follow the order ABCDE. The first and third letters are alphabetical beginning with J. The third letter is repeated as a first letter in each subsequent three-letter segment.

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9. BCB, DED, FGF, HIH, \_\_\_\_\_

A. JKJ

B. HJH

C. IJI

D. JHJ

**Answer:** Option A

**Explanation:**

This series consists of a simple alphabetical order with the first two letters of all segments: B, C, D, E, F, G, H, I, J, K. The third letter of each segment is a repetition of the first letter.

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10.  $P_5QR$ ,  $P_4QS$ ,  $P_3QT$ , \_\_\_\_\_,  $P_1QV$

A. PQW

B.  $PQV_2$

C.  $P_2QU$

D.  $PQ_3U$

**Answer:** Option C

**Explanation:**

The first two letters, PQ, are static. The third letter is in alphabetical order, beginning with R. The number series is in descending order beginning with 5.

11. QAR, RAS, SAT, TAU, \_\_\_\_\_

- A. UAV
- B. UAT
- C. TAS
- D. TAT

**Answer:** Option A

**Explanation:**

In this series, the third letter is repeated as the first letter of the next segment. The middle letter, A, remains static. The third letters are in alphabetical order, beginning with R.

12. DEF, DEF<sub>2</sub>, DE<sub>2</sub>F<sub>2</sub>, \_\_\_\_\_, D<sub>2</sub>E<sub>2</sub>F<sub>3</sub>

- A. DEF<sub>3</sub>
- B. D<sub>3</sub>EF<sub>3</sub>
- C. D<sub>2</sub>E<sub>3</sub>F
- D. D<sub>2</sub>E<sub>2</sub>F<sub>2</sub>

**Answer:** Option D

**Explanation:**

In this series, the letters remain the same: DEF.

The subscript numbers follow this series:

111, 112, 122, 222, 223, 233, 333, ...

Look carefully at the sequence of symbols to find the pattern. Select correct pattern.

1. EME | mmm | EWE | W ? W

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M	E	W	Ξ
(1)	(2)	(3)	(4)

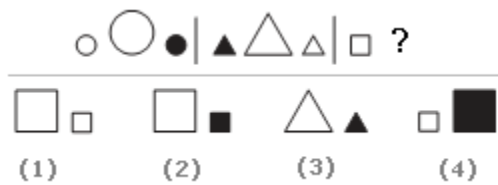
- A. 1
- B. 2
- C. 3
- D. 4

**Answer:** Option C

**Explanation:**

This is an alternating series. In the first segment, the letter "E" faces right, then down, then right. In the second segment, the letters all face down. To follow this pattern, in the fourth segment, the letters must all face up.

2.



- A. 1
- B. 2
- C. 3
- D. 4

**Answer:** Option B

**Explanation:**

Notice that in each segment, the figures are all the same shape, but the one in the middle is larger than the two on either side. Also, notice that one of the figures is shaded and that this shading alternates first right and then left. To continue this pattern in the third segment, you will look for a square. Choice b is correct because this choice will put the large square between the two smaller squares, with the shading on the right.

3.



- A. 1
- B. 2
- C. 3
- D. 4

**Answer:** Option A

**Explanation:**

Look at each segment. You will notice that in each, the figure on the right and the figure on the left are the same; the figure in between is different. To continue this pattern in the last segment, the diamond on the left will be repeated on the right. Choice a is the only possible answer.

4.

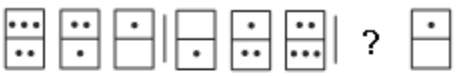


- A. 1
- B. 2
- C. 3
- D. 4


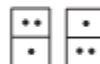


**Answer:** Option D

**Explanation:**

This sequence concerns the number of sides on each figure. In the first segment, the three figures have one side, and then two sides, and then three sides. In the second segment, the number of sides increases and then decreases. In the third segment, the number of sides continues to decrease.

5. 

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(1)  (2)  (3)  (4) 

- A. 1
- B. 2
- C. 3
- D. 4





**Answer:** Option A

**Explanation:**

Look carefully at the number of dots in each domino. The first segment goes from five to three to one. The second segment goes from one to three to five. The third segment repeats the first segment.

6. 

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(1)  (2)  (3)  (4) 

- A. 1
- B. 2
- C. 3
- D. 4

**Answer:** Option D

**Explanation:**

Look for opposites in this series of figures. The first and second segments are opposites of each other. The same is true for the third and fourth segments.



A. 1

B. 2

C. 3

D. 4

**Answer:** Option C

**Explanation:**

All four segments use the same figures: two squares, one circle, and one triangle. In the first segment, the squares are on the outside of the circle and triangle. In the second segment, the squares are below the other two. In the third segment, the squares are on the inside. In the fourth segment, the squares are above the triangle and circle.



A. 1

B. 2

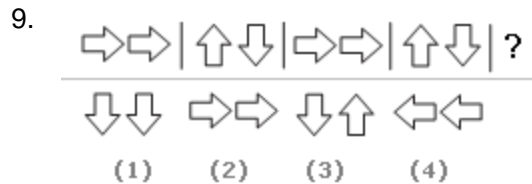
C. 3

D. 4

**Answer:** Option C

**Explanation:**

In this series, the shaded part inside the circle gets larger and then smaller.

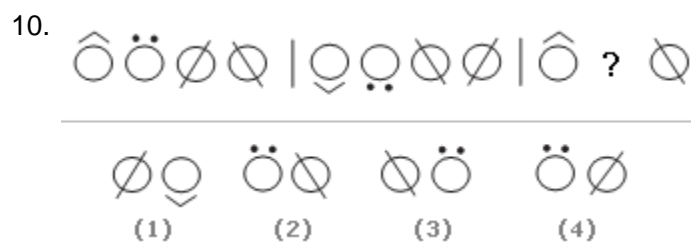


- A. 1
- B. 2
- C. 3
- D. 4

**Answer:** Option B

**Explanation:**

Look at each segment. In the first segment, the arrows are both pointing to the right. In the second segment, the first arrow is up and the second is down. The third segment repeats the first segment. In the fourth segment, the arrows are up and then down. Because this is an alternating series, the two arrows pointing right will be repeated, so option B is the only possible choice.

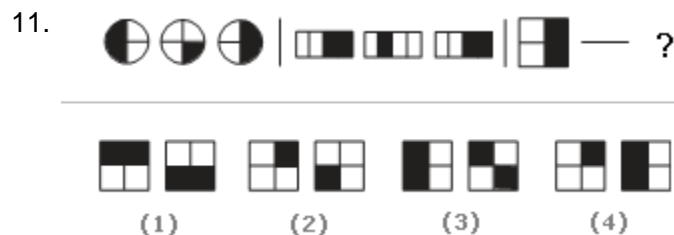


- A. 1
- B. 2
- C. 3
- D. 4

**Answer:** Option D

**Explanation:**

This is an alternating series. The first and third segments are repeated. The second segment is simply upside down.



- A. 1



B. 2

C. 3

D. 4


**Answer:** Option D


**Explanation:**


In each of the segments, the figures alternate between one-half and one-fourth shaded.


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12. 

  
(1)

  
(2)

  
(3)

  
(4)

A. 1

B. 2

C. 3

D. 4

**Answer:** Option C

**Explanation:**

Study the pattern carefully. In the first segment, two letters face right and the next two face left. The first letter in the second segment repeats the last letter of the previous segment. The same is true for the third segment. But the fourth segment changes again; it is the opposite of the first segment, so the last two letters must face right.

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13. 

  
(1)

  
(2)

  
(3)

  
(4)

A. 1

B. 2

C. 3

D. 4

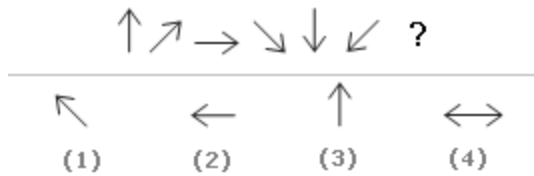
**Answer:** Option A

**Explanation:**

In this series, the figures increase the amount of shading by one-fourth and, once a square is completely shaded, starts over with an unshaded square. In the second segment, you will notice that the figure goes from completely shaded to completely unshaded. This is why choice a is the correct choice.

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14.



A. 1

B. 2

C. 3

D. 4

**Answer:** Option B

**Explanation:**

Each arrow in this continuing series moves a few degrees in a clockwise direction. Think of these arrows as the big hand on a clock. The first arrow is at noon. The last arrow before the blank would be 12:40. Choice b, the correct answer, is at 12:45.