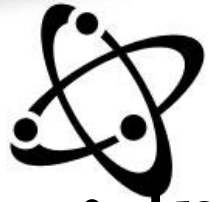# What you have to do?

- In these questions, series of numbers or alphabetical letters will be given, which are generally called as terms of the series.

- These terms follow a certain pattern throughout.

- You are required to recognize this pattern and either **complete the given series** with the most suitable alternative or **find the wrong term** in the series.

SERIES COMPLETION

- Ex.1 Which number would replace question mark in the series

7, 12, 19, ?, 39.

a) 29   b)   28   c)   26   d)   24

- Clearly, the given sequence follows the pattern :

  + 5, +7, +9 ... i.e.,

  7 + 5 = 12,

  12 + 7=19

Missing number = 19 + 9 = 28.

Hence, the answer is (b).

- Ex.2 Which is the number that comes next in the sequence :

0 6 24 60 120 210 ?

a) 240 b) 290 c) 336 d) 504

Solution

- Clearly, the given series is

  $l^3 - 1, 2^3 - 2, 3^s - 3, \ldots, 4^3 - 4, 5^3 - 5$

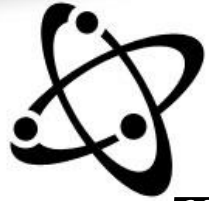 Next number $= 7^3 - 7 = 343 - 7 = 336$.

  Hence, the answer is (c).

- Ex.3 Which is the number that comes next in the following sequence ?

$$4, 6, 12, 14, 28, 30, (?)$$

a) 32   b)   60   c) 62   d)   64

Solution

- The given sequence is a combination of two series :

I. 4. 12, 28, (   )   and

II. 6. 14, 30.

Now, the pattern followed in each of the above two series is :
$$+ 8, + 16. + 32$$

So. missing number = (28 + 32) = 60.
   Hence, the answer is (b).

- Ex.4 Look at this series. What number should come next?

22, 21, 23, 22, 24, 23, ...

A. 22   B. 24   C. 25   D. 26

Solution

Answer: Option **C** (25)

Explanation:

- In this simple alternating subtraction and addition series; 1 is subtracted, then 2 is added, and so on.

- Ex.5 Look at this series:

8, 22, 8, 28, 8, ...

What number should come next?

A. 9

B. 29

C. 32

D. 34

Solution

- **Answer:** Option **D (34)**

- **Explanation:**

- This is a simple addition series with a random number, 8, interpolated as every other number. In the series, 6 is added to each number except 8, to arrive at the next number.

- Ex.6 Look at this series:

    1.5, 2.3, 3.1, 3.9, ...

    What number should come next?

A. 4.2

B. 4.4

C. 4.7

D. 5.1

Solution

- **Answer:** Option **C**

- **Explanation:**

- In this simple addition series, each number increases by 0.8.

- Ex.7 Look at this series:

    14, 28, 20, 40, 32, 64, ...

What number should come next?

A. 52   B. 56   C. 96   D. 128

Solution

- **Answer:** Option **B**

- **Explanation:**

- This is an alternating multiplication and subtracting series: First, multiply by 2 and then subtract 8.

- Ex.8 Look at this series:

1000, 200, 40, ...

What number should come next?

A. 8   B. 10   C. 15   D. 20

Solution

- **Answer:** Option **A**

- **Explanation:**

- This is a simple division series. Each number is divided by 5.

ANALOGY

ANALOGY

- An analogy question gives you a pair or words; then from a list of other pairs you pick the one that most nearly matches the relationship of the original pair.

Type - 1

- Find out which of the answer choices completes the same relationship with the third word.

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Ex 1 :

- Newspaper : Press : : Cloth : ?

(a) Tailor   (b) Textile   (c) Fibre
(d) Factory   (e) Mill

- **Answer:** Option **E**
- **Explanation:**
- Newspaper is printed in Press and Cloth is manufactured in Mill.

Ex 2:

Cup is to coffee as bowl is to

A. Dish
B. Soup
C. Spoon
D. food

- **Answer:** Option **B**

- **Explanation:**

- Coffee goes into a cup and soup goes into a bowl. Choices a and c are incorrect because they are other utensils. The answer is not choice d because the word food is too general.

- Ex 3:
- Odometer is to mileage as compass is to

A. Speed

B. Hiking

C. Needle

D. direction

- **Answer:** Option **D**
- **Explanation:**
- An odometer is an instrument used to measure mileage. A compass is an instrument used to determine direction. Choices a, b, and c are incorrect because none is an instrument.

- Ex 4 :
- Pen is to poet as needle is to

A. Thread

B. Button

C. Sewing

D. tailor

- **Answer:** Option **D**
- **Explanation:**
- A pen is a tool used by a poet. A needle is a tool used by a tailor. The answer is not choice a, b, or c because none is a person and therefore cannot complete the analogy.
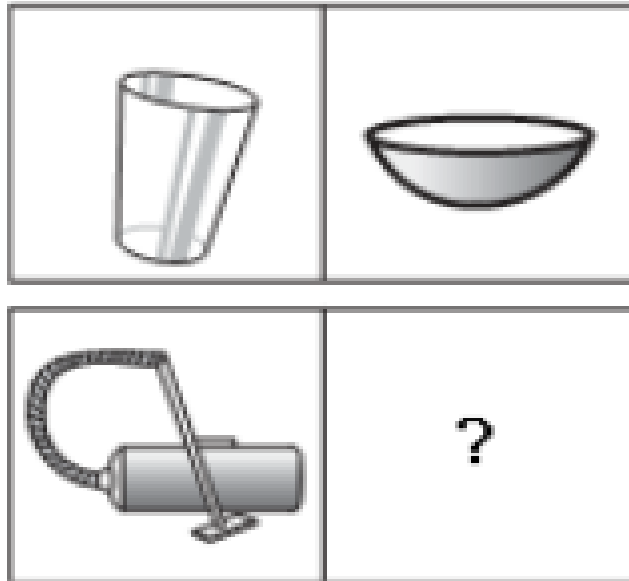
Type - 2

- Choose the picture that would go in the empty box so that the two bottom pictures are related in the same way as the top two are related.
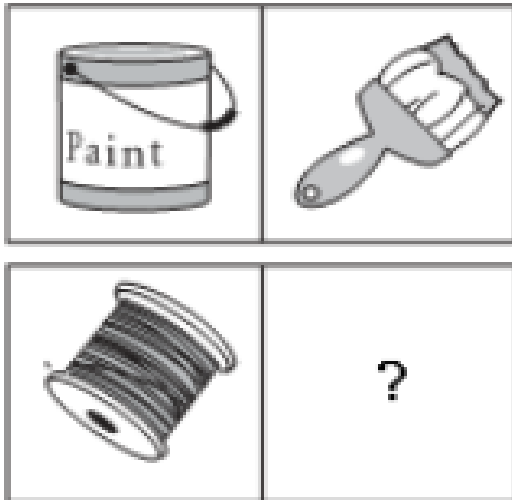
Ex. 5 :

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

- **Answer:** Option **A**

- **Explanation:**

- Cup is to bowl as vacuum cleaner is to broom. This is another relationship about function. The cup and bowl are both used for eating. The vacuum cleaner and broom are both used for cleaning.

Ex 6 :

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

A. 1

B. 2

C. 3

D. 4

- **Answer:** Option **D**
- **Explanation:**
- A can of paint is to a paintbrush as a spool of thread is to a sewing needle. This is a relationship of function. Both show the tool needed to perform a task.

Type - 3

- The words in the bottom row are related in the same way as the words in the top row. For each item, find the word that completes the bottom row of words.

Ex. 7 :

candle   lamp   floodlight

hut   cottage   ?

A. tent

B. city

C. dwelling

D. house

- **Answer**: Option **D**
- **Explanation**:
- Above the line, the relationship shows a progression of sources of light. The relationship below the line shows a progression of types of housing, from smallest to largest. (Choice a) is incorrect because a tent is smaller than a house. Choices b and c are wrong because they are not part of the progression.

Ex. 8 :

rule	command	dictate
doze	sleep	?

A. snore

B. govern

C. awaken

D. hibernate

- **Answer**: Option **D**
- **Explanation**:
- The words above the line show a continuum: Command is more extreme than rule, and dictate is more extreme than command. Below the line, the continuum is as follows: Sleep is more than doze, and hibernate is more than sleep. The other choices are not related in the same way.

Ex.9:

apples   fruit   supermarket

novel   book   ?

A. bookstore

B. magazine

C. vegetable

D. shopping

- **Answer**: Option **A**

- **Explanation**:

- The relationship above the line is as follows; apples are a kind of fruit; fruit is sold in a supermarket. Below the line, the relationship is: a novel is a kind of book; books are sold in a bookstore.

Type - 4

- Every one of the following questions consists of a related pair of words, followed by five pairs of words. Choose the pair that best represents a similar relationship to the one expressed in the original pair of words.

Ex.10:

- EXPLORE : DISCOVER

- A. read : skim
- B. research : learn
- C. write : print
- D. think : relate
- E. sleep : wake

- **Answer:** Option **B**
- **Explanation:**
- One explores to discover; one researches to learn.

Ex.11:

- PETAL : FLOWER

- A. salt : pepper
- B. tire : bicycle
- C. base : ball
- D. sandals : shoes
- E. puppy : dog

- **Answer:** Option **B**
- **Explanation:**
- A petal is a part of a flower; a tire is a part of a bicycle.