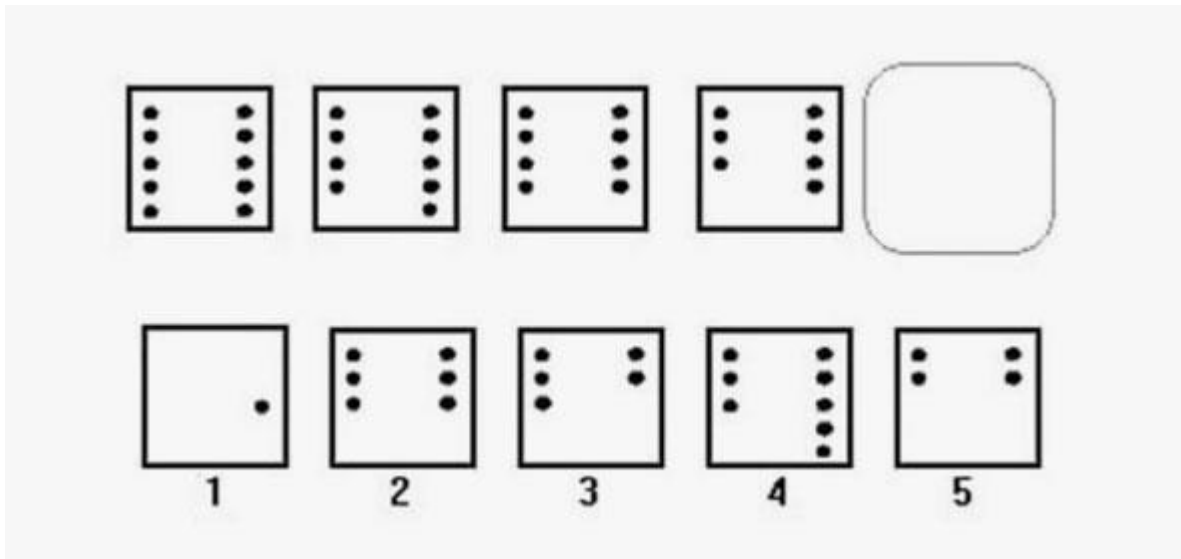


## Sample of test questions

### Figural Reasoning

Example:

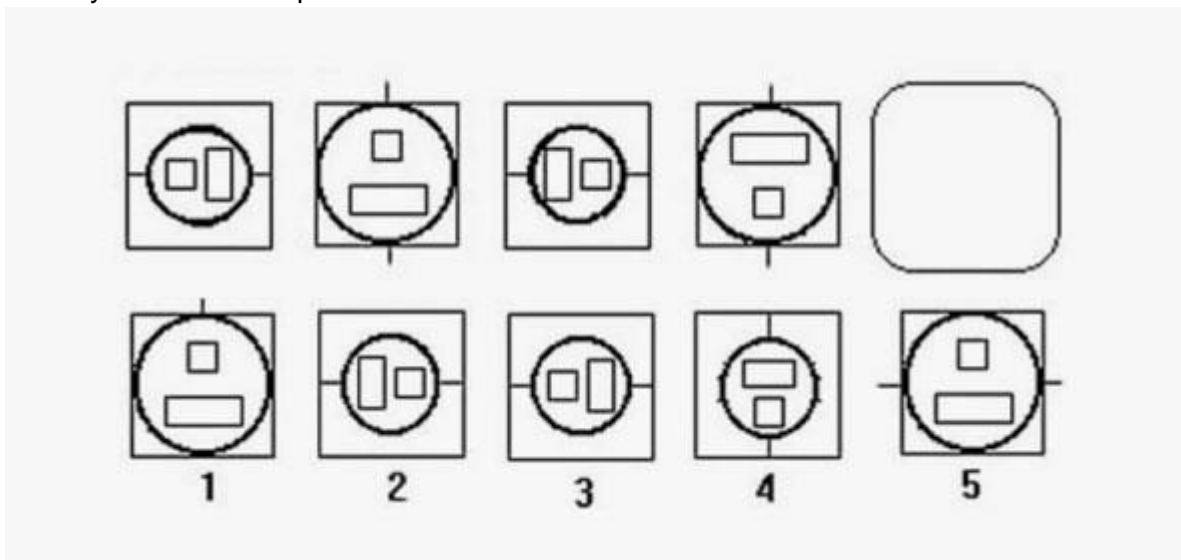


Each question consists of a series of four boxes containing figures, and below it, five boxes labelled 1, 2, 3, 4, and 5. In each question, the series of boxes on the top is made up according to a certain rule or order. You need to find out what this rule is and decide what the next box will be. You will choose your answer from the boxes at the bottom.

Each box on the top contains 2 columns of dots. The number is reduced by one, first in the left column and then in the right column. Since the fourth box contains 3 dots in the left column and 4 in the right, the next box should contain 3 dots in both columns.

Therefore, the answer is box 2, which is the only one having 3 dots in each column.

Now try the next example:



Scroll to the end for answer.

## Numerical Reasoning

### **Example:**

3, 6, 9, 12, 15, ?

Each question consists of a series of numbers. Each series is made up according to a certain rule. You are asked to determine what that rule is and then decide what the next number in the series should be.

In this particular series, the rule is to add 3 to each number ( $3+3=6$ ,  $6+3=9$ ,  $9+3=12$ , and  $12+3=15$ ).

Therefore, the next number in the series should be 18 (i.e.  $15+3$ ).

The next example is a little more difficult:

3, 6, 7, 14, 15, 30, ?

Hint: there are actually 2 rules involved.

Scroll to the end for answer.

## Algebra

### **Example:**

$$5700 - 5680 = \boxed{\phantom{00}}$$

- 1) 10
- 2) 20
- 3) 25
- 4) 100
- 5) 125

Like the example above, you will be asked to complete each question using arithmetic and algebra. You need to solve each question by selecting the correct answer among the five choices provided.

Now try the next example:

$3X = 15$ ; what is the value of X?

- 1) 2
- 2) 3
- 3) 5
- 4) 7
- 5) 10

Scroll to the end for answer.

## Verbal Analogy

### **Example:**

Company : President

- 1) Team : Athlete
- 2) Hospital : Patient
- 3) Airline : Passenger
- 4) Library : Reader
- 5) Army : General

You will be presented with a pair of words, followed by five pairs of words. From these five, you are asked to choose the pair that best expresses a relationship similar to that expressed in the original pair.

The correct answer here is option 5) Army : General. A president heads a company. In the same way, a general heads an army. However, an athlete does not head a team, a patient does not head a hospital, and a passenger does not head an airline.

Now try the next example:

Yawn : Boredom

- 1) Dream : Sleep
- 2) Anger : Madness
- 3) Smile : Amusement
- 4) Face : Expression
- 5) Impatience : Rebellion

Scroll to the end for answer.

## Directions/Instructions

### Example:

Look at this pattern:

A	J	E	U	Y	O	P	J	Q	F	A	O	P	G	N	Y
1	4	2	6	4	9	0	4	6	2	5	8	2	5	1	9

Question: Find the letter which appears directly above the smallest number. Then find the same letter along the row and identify the number which appears under it.

Answer: \_\_\_\_\_

As seen from the example provided above, each question will test your ability to understand and follow a set of directions. You will need to read each question carefully and follow the directions step by step to arrive at an answer.

The correct answer here is 2. The smallest number is '0' and the letter above it is 'P'. The number that appears below the other 'P' is '2'.

Now try the next example:

Type the number of letters in the longest word below:

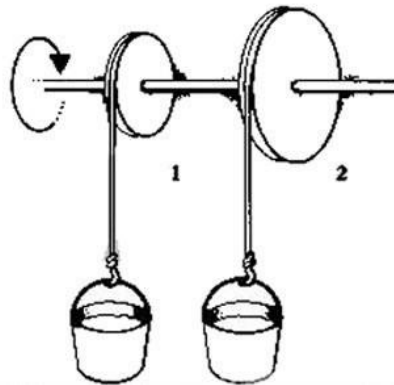
road, sky, minute, decision, heaven

Answer: \_\_\_\_\_

Scroll to the end for answer.

## Mechanics

**Example:**



Which will be the first bucket to reach the top?

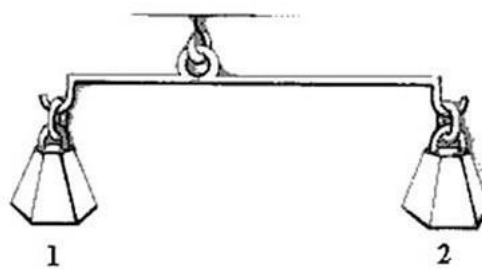
(Select 3 if there is no difference.)

1	2	3
---	---	---

The questions in this test are related to mechanics and laws of Physics. In each question, you will be shown a picture, followed by three answer options. You will need to select the most appropriate answer to each question.

The correct answer here is option 2.

Now try the next example:



Which weight is heavier?

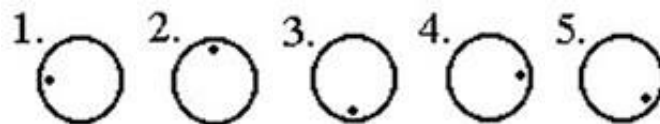
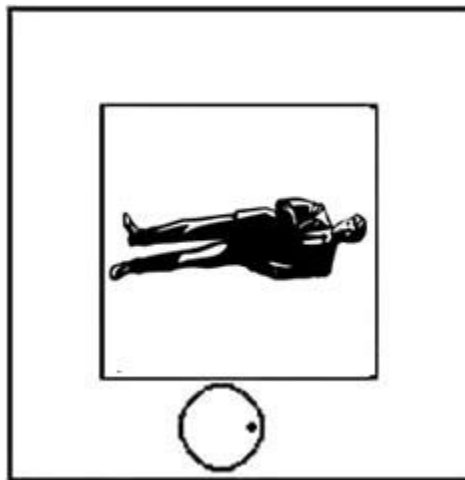
(Select 3 if there is no difference.)

1	2	3
---	---	---

Scroll to the end for answer.

## Orientation

**Example:**



Each question consists of a central figure and an outer frame, which contains an object. Your task is to determine the final orientation of the object in relation to the bottom (i.e. the feet of the man) of the central figure. You will be presented with five options below each item, one of which shows to correct final orientation of the object.


Instructions:

Step 1: Identify the bottom (i.e. feet of the man) of the central figure.

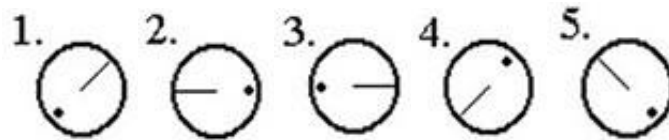
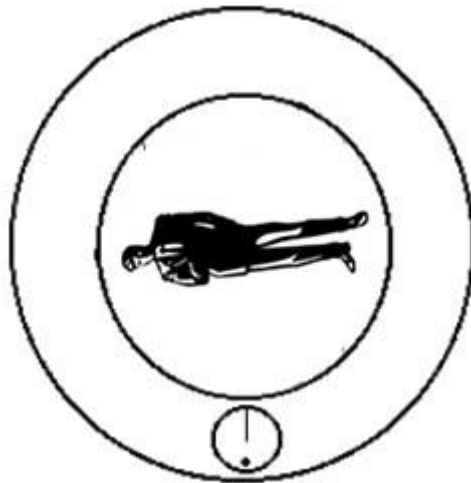
Step 2: Mentally rotate the outer frame such that the object comes to rest at the bottom of the central figure.

Step 3: Determine how the object would look like in its new position, after the frame has been rotated.

The correct answer here is option 3. The frame should be turned to the left, one-quarter of a full turn so that the circle with the dot comes to rest at the bottom of the central figure. As the frame is turned, it carries with it the circle with the dot inside. So after the frame has been

turned, the circle with the dot will look like this:  .

Now try the next example:



Instructions:

Step 1: Identify the bottom (i.e. feet of the man) of the central figure.

Step 2: Mentally rotate the outer frame such that the object comes to rest at the bottom of the central figure.

Step 3: Determine how the object would look like in its new position after the frame has been rotated.

Scroll to the end for answer.

# Answers for test questions

## Answer for Figural Reasoning

The answer is Box 3.

The circle in the four boxes on the top, change in size from small to large then back to small again. Each circle, together with its contents is also rotated 90 degrees in a clockwise direction. Box 3 is the correct answer as it contains a small circle and has rotated 90 degrees.

## Answer for Numerical Reasoning

3, 6, 7, 14, 15, 30, ?

The rule here is to first multiply by 2 and then add 1.

$$3 \times 2 = 6$$

$$6 + 1 = 7$$

$$7 \times 2 = 14$$

$$14 + 1 = 15$$

$$15 \times 2 = 30$$

Therefore, the next number in the series is 31 (i.e.  $30 + 1$ ).

## Answer for Algebra

The correct answer is option 3. If  $3X = 15$  then  $X = 15 \div 3 = 5$ .

## Answer for Verbal Analogy

Yawn : Boredom

The correct answer here is Option 3. A smile is a sign of amusement just as a yawn is a sign of boredom.

## Answer for Directions/Instructions


The correct answer is 8. The longest word is "decision", which has 8 letters.

## Answer for Mechanics

The correct answer is Option 1.

## Answer for Orientation

The correct answer is Option 2. You would turn the frame one-quarter of a full turn to the right, so that the circle with the dot inside is located at the bottom of the central figure. After

you have done this, the circle with the dot inside will look like this: .