



Discover Dollar Campus Hire Assessment-Jan'22

Dear Candidate,
Thank you for your interest with Discover Dollar.

Discover Dollar started with a vision to help organizations to harness full potential of the data they have. More than 75% of enterprise data is in unstructured data. It can be in the form of email conversations, chats, discussions, meetings, invoices, and contract copies. This data has very important information but not harnessed to the fullest extent. Discover Dollar's mission is to help enterprises to create value harnessing this data, using data-first approach using data science, AI and cutting-edge technologies. For more details visit www.discoverdollar.com

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Glassdoor: <https://www.glassdoor.co.in/Reviews/Discover-Dollar-Reviews-E2086958.htm>

1

Your full name *

PRASAD DHARMA NAIK

2

Your College name *

SRINIVAS INSTITUTE OF TECHNOLOGY

3

Your email ID *

4

Your contact number *

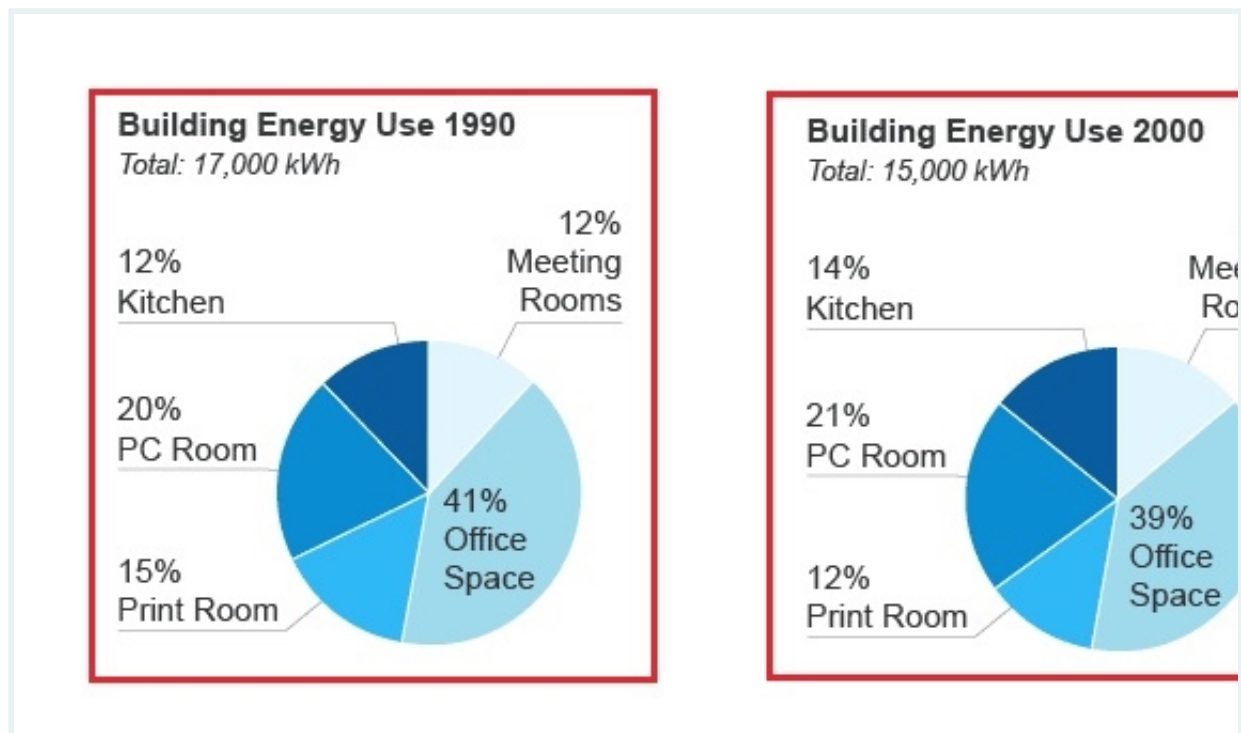
5

The role applied for *

- ☐ Associate Software Developer
- ☐ Associate Data Scientist
- ☒ Associate Data Analyst

6

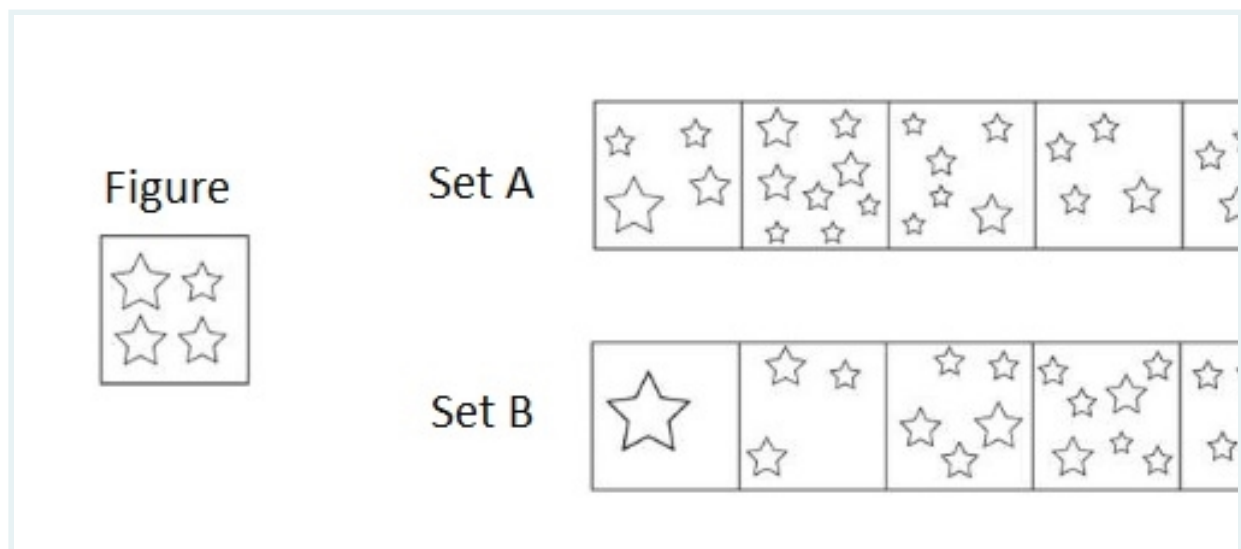
If the Building Energy Use today is 6% less than it was in 2000, by what percentage is today's Building Energy Use lower than that of 1990?
(1 Point)



- ☐ 82.9%
- ☒ 17.1%
- ☐ 17.8%
- ☐ Cannot say

7

Which set does the Figure belong to?
(1 Point)



- ☐ Set B

- ☒ Set A
- ☐ Neither set A nor set B

8

In SQL, which operator is used to compare a value to a specified list of values?

(1 Point)

- ☒ in
- ☐ having
- ☐ like
- ☐ between

9

Two men start together to walk to a certain destination, one at 3kmph and another at 3.75 kmph. The latter arrives half an hour before the former. The distance is

(1 Point)

- ☐ 8km
- ☒ 7.5km
- ☐ 6km
- ☐ 9.5km

10

Three ants are sitting at the three corners of an equilateral triangle. Each ant randomly picks a direction and starts to move along the edge of the triangle. What is the probability that none of the ants collide?

(1 Point)

☒ 1/8☐ 2/3☐ 1/6☐ 1/4

11

The physical layer of a network
(1 Point)

- ☐ controls error detection and correction
- ☐ None from listed
- ☒ defines the electrical characteristics of signals passed between the computer and communication devices
- ☐ constructs packets of data and sends them across the network
- ☐ All of the listed

12

In a class of 50 students, below are the marks obtained in particular subject.

What is the median of the marks?
(1 Point)

Marks	15	30	37	42	48
No of students	1	8	13	20	8

☐ 42

☒ 34.4

☐ 10

☐ 37

13


What are the assumptions of logistic regression?
(1 Point)

- ☐ Linearity
- ☐ No endogeneity, No autocorrelation
- ☐ All from listed
- ☒ Normality and homoscedasticity, No multicollinearity





14

Which set does the Figure belong to?
(1 Point)





Figure



Set A

Set B

- ☒ Set A
- ☐ Neither set A nor set B
- ☐ Set B

15

A matrix **X** has the dimension 2×2 . If the eigenvalues of the matrix are 5 and 6, what would be the eigen values of **X^2** ?

(1 Point)

- ☐ 10 and 12
- ☐ 2.5 and 3
- ☐ 5 and 6
- ☒ 25 and 36

16

A thief steals a car at 2:30 pm and drives it at 60kmph. The theft is discovered at 3 pm and the owner sets off in another car at 75 kmph when will he overtake the thief.

(1 Point)

- ☐ 4:30 pm
- ☐ 4:45 pm
- ☒ 5 pm
- ☐ 5:15pm

17

The section of the CPU that selects, interprets and sees to the execution of program instructions

(1 Point)

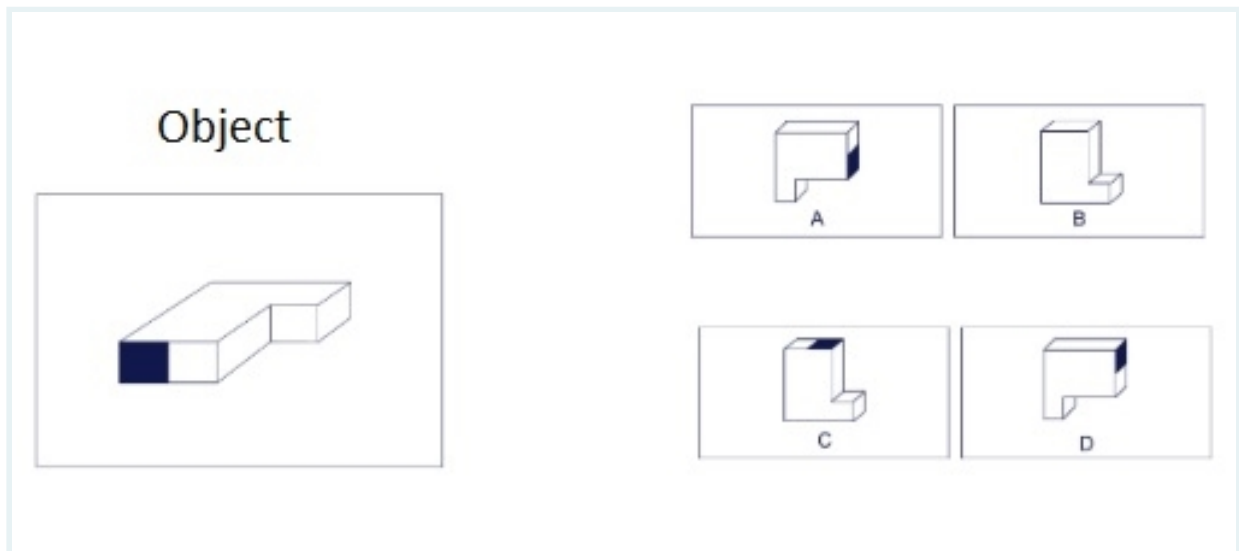
- ☐ ALU
- ☐ Memory
- ☒ Control unit

☐ None from listed

☐ Register unit

18

Which figure is a rotation of the object?
(1 Point)



☒ D

☐ B

☐ A

☐ C

19

Multilateral development banks (MDBs) are international financial institutions established by a group of countries that provide financial services and professional advice in order to further economic development. MDBs generally receive donations from developed nations in the form of very-long term loans below the market rate of interest and through grants

Q3. Taking each line in the above argument as true, which statement must be demonstrably false?
(1 Point)

- ☒ An aim of MDBs is to provide economic development.
- ☐ Developing nations will eventually pay back their loans.
- ☐ MDBs lend money as typically short-term loans.
- ☐ MDBs are established as international ventures

20

The large silver clock states the time as 15:50.

The small silver clock displays the same time as the gold clock.

The Bronze clock is small in size.

The gold clock is ten minutes behind the large silver clock.

The Bronze clock is five minutes after of the Small Silver Clock

Q1. The Small Silver Clock displays the time as 16:00
(1 Point)

- ☐ Insufficient Information
- ☐ True
- ☒ False

21

Identify the correct order of a SQL statements
(1 Point)

- ☐ SELECT, GROUP BY, WHERE, HAVING
- ☒ SELECT, WHERE, GROUP BY, HAVING
- ☐ SELECT, WHERE, HAVING, GROUP BY
- ☐ SELECT, HAVING, WHERE, GROUP BY

22

Which set does the Figure belong to?
(1 Point)

Figure

☆	☆	☆
☆	☆	★

Set A

☆	★	☆	☆	☆	☆	☆	☆	☆	☆
☆	☆	☆	☆	☆	☆	☆	☆	☆	☆

Set B

☆	☆	☆	★	☆	☆	☆	☆	★	☆
★	☆	☆	☆	☆	☆	☆	☆	☆	☆

- ☐ Set A
- ☒ Se B
- ☐ Neither set A nor set B

23

Which set does the Figure belong to?
(1 Point)

Figure

□	@
+	\$ ^

Set A

@ &	~ (~) ?)	\$ ~ @
) ~	(?	\$) @	& ~ @
~ \$			

Set B

人 +	□ ^	^ □	- [+
[^	+ T	人 □	[+
人	+		

- ☒ Neither set A nor set B

☐ Set A☐ Set B

24

The large silver clock states the time as 15:50.

The small silver clock displays the same time as the gold clock.

The Bronze clock is small in size.

The gold clock is ten minutes behind the large silver clock.

The Bronze clock is five minutes after of the Small Silver Clock

Q2 The Gold Clock is the same time as the Bronze Clock
(1 Point)

☐ True☒ False☐ Insufficient Information

25

What will this program print?

```
main()
{
    int i = 2;

    {
        int i = 4, j = 5;

        printf("%d %d", i, j);
    }

    printf("%d %d", i, j);
}
```

(1 Point)

- ☒ 4525
- ☐ None of the these
- ☐ 4545
- ☐ 2525

26

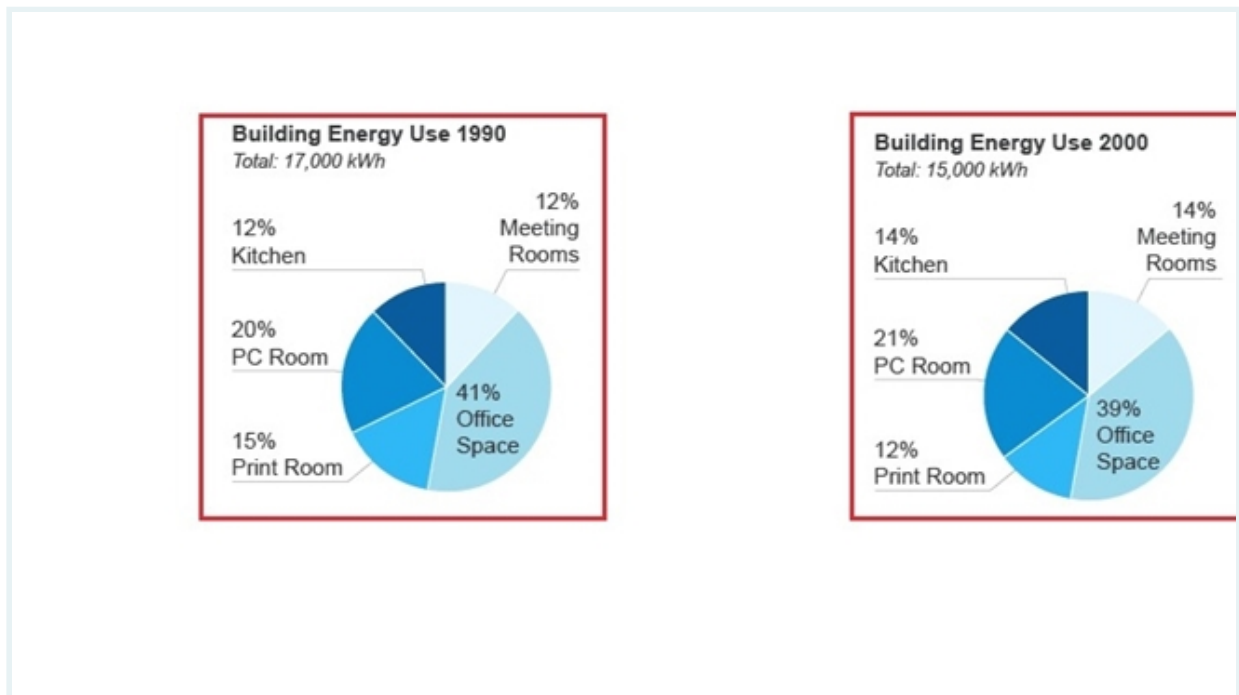
At 3.40, the hour hand and the minute hand of a clock form an angle of
(1 Point)

- ☐ 125°
- ☐ 135°
- ☐ 120°

☒ 130°

27

Between 1990 and 2000, what was the decrease in energy use for the PC Room, Meeting Rooms and Office Space combined?
(1 Point)



- ☐ 1,450kWh
- ☒ 1,310kWh
- ☐ 1,400kWh
- ☐ Cannot say

28

What service is used to translate domain names to IP addresses?
(1 Point)

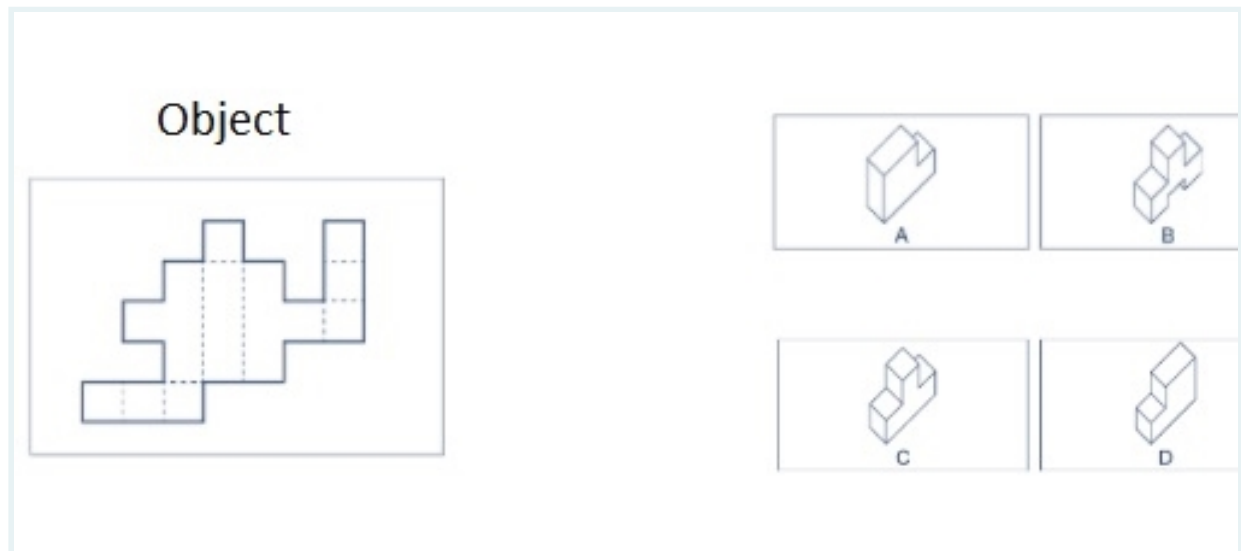
- ☐ SMB
- ☐ NIS
- ☒ DNS

☐ None from listed

☐ NFS

29

Which object can be made by folding the given shape?
(1 Point)



☐ D

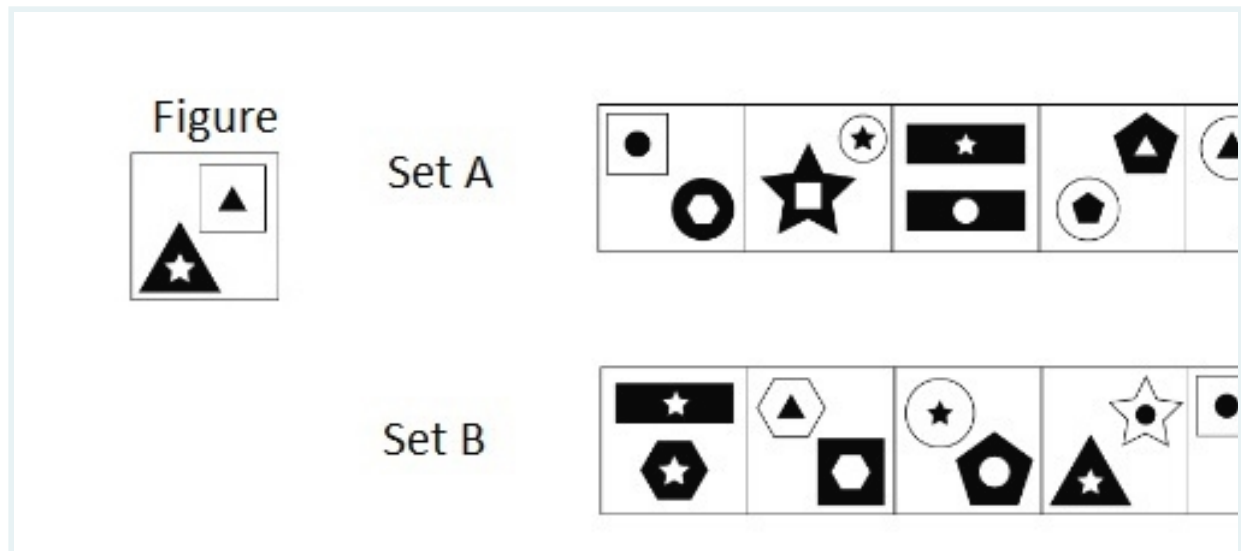
☒ C

☐ A

☐ B

30

Which set does the Figure belong to?
(1 Point)



- ☒ Set B
- ☐ Neither set A nor set B
- ☐ Set A

31

The correct syntax for running multiple variable for loop simultaneously is.
(1 Point)

- ☐ for (i = 0; i < n; i++) {} for (j = 0; j < n; j += 5) {}
- ☐ None of the mentioned
- ☒ for (i = 0, j = 0; i < n, j < n; i++, j += 5)
- ☐ for (i = 0; i < n; i++) for (j = 0; j < n; j += 5)

32

Study the following program:

```
main()
{
    char x [15], *ptr = x;

    scanf ("%s", x);

    change(&x[6]);
}

change(char a[])
{
    puts(a);
}
```

If abcabcdefgdefg is the input, the output will be
(1 Point)

- ☐ Garbage
- ☒ defgdefg
- ☐ fgdefg
- ☐ abcdef

33

How many times will the following loop execute?

```
for(j = 5; j <= 10; j = j-1)
```

(1 Point)

☒ Forever

☐ 0

☐ Never

☐ 1

34

What will the result of num1 variable after execution of the following statements?

```
int j = 1, num1 = 5
```

```
while (++j <= 10)
```

```
{
```

```
    num1++
```

```
}
```

(1 Point)

☐ 11

☐ 13

☐ 12

☒ 14

35

Which of the following pairs of variables should not be analysed using Correlation?
(1 Point)

- ☒ Systolic Blood Pressure - Cholesterol level
- ☐ Liver enzyme concentration - Alcohol Consumption (units per week)
- ☐ FEV1 - Gender
- ☐ Age -. Body Mass Index (BMI)

36

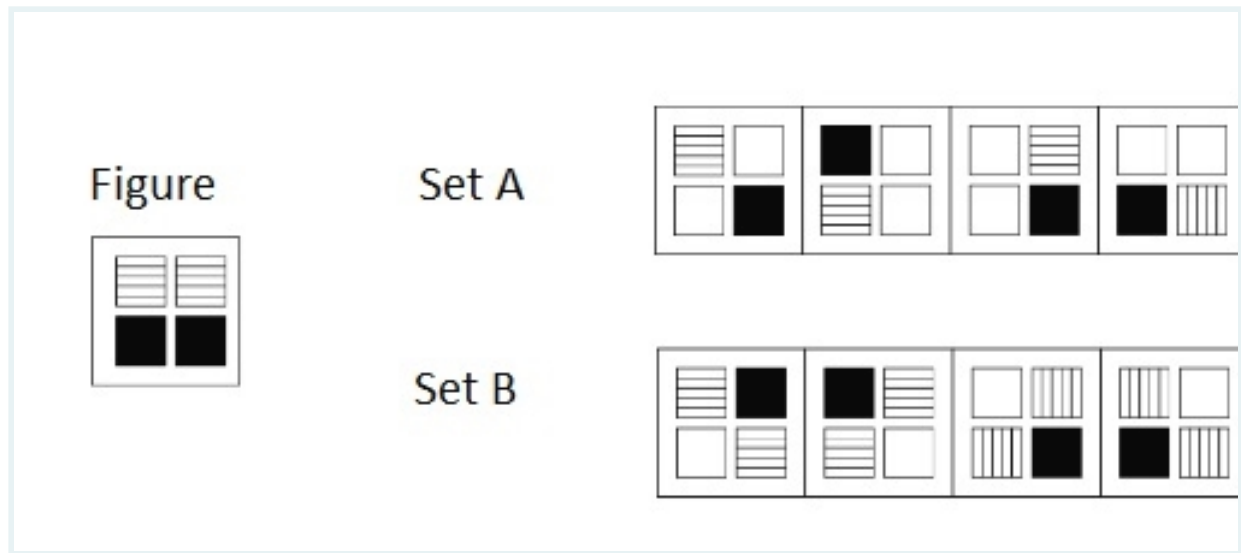
(1 Point)

How does the matrix $T = \begin{bmatrix} 0 & -1 \\ 1 & 0 \end{bmatrix}$ transform the vector $v = \begin{bmatrix} x1 \\ x2 \end{bmatrix}$ when they are

- ☒ Rotate the vector by 180°
- ☐ Project the vector on to the y-axis
- ☐ Rotate the vector by 90°
- ☐ None from listed

37

Which set does the Figure belong to?
(1 Point)



☒ Neither set A nor set B

☐ Set A

☐ Set B

38

if X is mean of data in the series -5,9, X,50,15,7,8, what would be mode of this series?

(1 Point)

☐ 4.1

☐ 8

☐ 9

☒ 15

39

Group of instructions that directs a computer is called

(1 Point)

☐ Logic

☐ None from listed

- ☐ Storage
- ☒ Program
- ☐ Memory

40

In Python , what would be the output of the following statement:

```
Print("Discover" + "Dollar")
```

(1 Point)

- ☒ DiscoverDollar
- ☐ Discover Dollar
- ☐ Discover+Dollar
- ☐ Incorrect Syntax

41

A clock is started at noon. By 10 minutes past 5, the hour hand has turned through

(1 Point)

- ☐ 160°
- ☒ 155°
- ☐ 150°
- ☐ 145°

42


A Train 125 m long passes a man, running at 5 kmph in the same direction in which the train is going in 10 seconds. The speed of the train is
(1 Point)

- ☐ 45 kmph
- ☐ 54 kmph
- ☐ 55 kmph
- ☒ 50 kmph

43

Which set does the Figure belong to?
(1 Point)

Figure



Set A

Set B

- ☐ Set B
- ☒ Neither set A nor set B
- ☐ Set A

44

Which of the following hardware components is the most important to the operation of a database management system?

(1 Point)


- ☐ printer
- ☐ high-resolution video display
- ☒ high speed, large-capacity disk
- ☐ mouse
- ☐ plotter

45

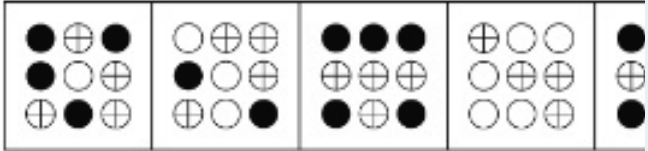
Which set does the Figure belong to?

(1 Point)

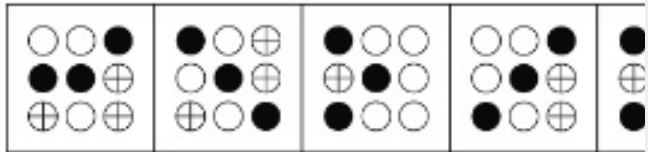
Figure



Set A



Set B



- ☐ Set A
- ☒ Set B
- ☐ Neither set A nor set B

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