

**Started on** Monday, 1 July 2024, 6:27 PM**State** Finished**Completed on** Monday, 1 July 2024, 6:27 PM**Time taken** 19 secs**Grade** 0.00 out of 50.00 (0%)

## Question 1

Not answered

Marked out of 1.00



Eldor wrote this expression in his notebook.

$$10 \times 10 \times 10 \times 10$$

Which of the following is equivalent to Eldor's expression?

- ☐ a. 40
- ☐ b.  $4^{10}$
- ☐ c.  $10^4$
- ☐ d.  $10^2$
- ☐ e. 1000

## Question 2

Not answered

Marked out of 1.00

Which of the following pairs of numbers are additive inverses of each other?

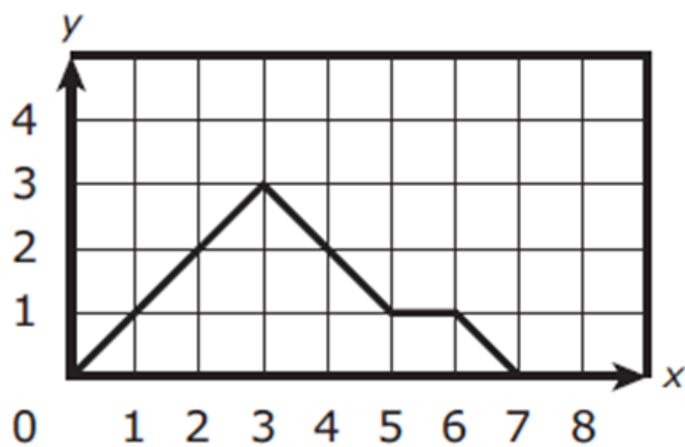
- ☐ a. -0.5 and 2
- ☐ b. 2 and -0.2
- ☐ c. 0.5 and -0.5
- ☐ d. 0.5 and 2
- ☐ e. -0.5 and -0.5

## Question 3

Not answered

Marked out of 1.00

The graph of a function is shown.



Which of the following statements describes an interval of the function?

- ☐ a. The function is decreasing from  $x = 5$  to  $x = 6$ .
- ☐ b. The function is increasing from  $x = 6$  to  $x = 7$ .
- ☐ c. The function is increasing from  $x = 0$  to  $x = 3$ .
- ☐ d. The function is decreasing from  $x = 1$  to  $x = 3$ .
- ☐ e. The function is decreasing from  $x = 2$  to  $x = 4$ .

## Question 4

Not answered

Marked out of 1.00

If a sequence is defined by  $a_n = n^2 - n$  for  $n \geq 1$ , what is the **difference** between the 6<sup>th</sup> and 5<sup>th</sup> terms?

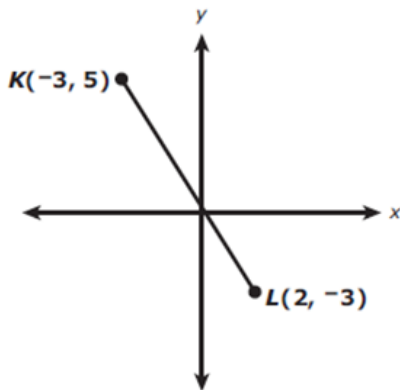
- ☐ a. 8
- ☐ b. 10
- ☐ c. 12
- ☐ d. 18
- ☐ e. 4

## Question 5

Not answered

Marked out of 1.00

Line segment KL is shown on this coordinate plane.



What are the coordinates of the midpoint of line segment KL?

- ☐ a. (-0.5, 1)
- ☐ b. (-1, 0.5)
- ☐ c. (0.5, -1)
- ☐ d. (1, -0.5)
- ☐ e. (-1, 1)

## Question 6

Not answered

Marked out of 1.00

$$(2x + 3)(ax - 1) - 2x^2 + 3$$

In the expression above,  $a$  is a constant. If the expression is equivalent to  $bx$ , where  $b$  is a constant, what is the value of  $b$ ?

- ☐ a. 12
- ☐ b. -3
- ☐ c. 1
- ☐ d. 0
- ☐ e. 4

## Question 7

Not answered

Marked out of 1.00

A rectangular park has to be fenced on three sides leaving a side of **15 feet** uncovered. If the area of the park is **570 square feet**, how many feet of fencing will be required?

- ☐ a. 91
- ☐ b. 68
- ☐ c. 170
- ☐ d. 88
- ☐ e. 44

## Question 8

Not answered

Marked out of 1.00

A store sells white scarves and red scarves.

•A white scarf costs \$3.

•A red scarf costs \$5.

On Monday, the store sold 12 scarves for a total of \$50.

What is the total number of red scarves that the store sold on Monday?

- ☐ a. 6
- ☐ b. 3
- ☐ c. 7
- ☐ d. 5
- ☐ e. 4

## Question 9

Not answered

Marked out of 1.00

Abror has 16 pins in one box and 17 pins in another box. He is hanging posters with pins. Abror uses 4 pins to hang each poster.

What is the total number of posters Abror can hang with the pins?

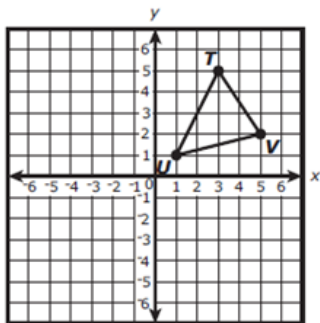
- ☐ a. 17 posters
- ☐ b. 9 posters
- ☐ c. 8 posters
- ☐ d. 4 posters
- ☐ e.  $23\frac{1}{4}$  posters

## Question 10

Not answered

Marked out of 1.00

Triangle TUV is shown on this coordinate plane.



- Triangle TUV will be reflected over the x-axis.
- The image of triangle TUV will then be translated as 2 units up and 1 unit left.

What will be the coordinates of the final image of point V after the two transformations?

- ☐ a. (4, 0)
- ☐ b. (0, 6)
- ☐ c. (0, 4)
- ☐ d. (-6, 4)
- ☐ e. (4, -6)

## Question 11

Not answered

Marked out of 1.00

Which of the following is **not** equivalent to this expression?

$$2m + 10m + 14 + 3$$

- ☐ a.  $15m + 15 - 3m + 2$
- ☐ b.  $6m + 6m - 1 + 18$
- ☐ c.  $13m + 15 - m + 2$
- ☐ d.  $2m + 10 + 10m + 7$
- ☐ e.  $m + 12m + 8 + 9$

## Question 12

Not answered

Marked out of 1.00

A travel agent surveyed people in two age groups about whether or not they like traveling.

Which two-way table shows the possible results of the survey?

☐ a.

**Travel Survey**

	Likes Traveling	Dislikes Traveling	Totals
Ages 18-30	30	10	50
Ages 31-60	30	10	50
Totals	60	40	100

☐ b.

**Travel Survey**

	Likes Traveling	Dislikes Traveling	Totals
Ages 18-30	40	10	50
Ages 31-60	20	30	50
Totals	60	40	100

☐ c.

**Travel Survey**

	Likes Traveling	Dislikes Traveling	Totals
Ages 18-30	40	10	50
Ages 31-60	10	30	50
Totals	60	40	100

☐ d.

**Travel Survey**

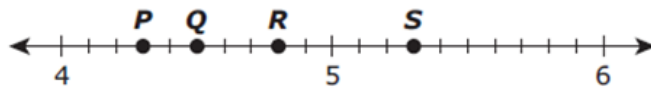
	Likes Traveling	Dislikes Traveling	Totals
Ages 18-30	30	10	50
Ages 31-60	40	10	50
Totals	60	40	100

## Question 13

Not answered

Marked out of 1.00

Which point on the number line best approximates the location of  $\sqrt{20}$ ?



- ☐ a. point R
- ☐ b. point P
- ☐ c. point Q
- ☐ d. point S

## Question 14

Not answered

Marked out of 1.00

Ana is a girl and has the same number of brothers as sisters. Andrew is a boy and has twice as many sisters as brothers. Ana and Andrew are the children of Emma. How many children does Emma have?

- ☐ a. 3
- ☐ b. 8
- ☐ c. 2
- ☐ d. 5
- ☐ e. 7

## Question 15

Not answered

Marked out of 1.00

A student drinks  $\frac{2}{5}$  liter of water each morning.

Which of these is the total amount of water, in liters, the student drinks over 4 mornings?

- ☐ a.  $\frac{6}{5}$  liters
- ☐ b.  $\frac{8}{5}$  liters
- ☐ c.  $\frac{5}{6}$  liters
- ☐ d.  $\frac{8}{20}$  liters
- ☐ e.  $\frac{8}{10}$  liters

## Question 16

Not answered

Marked out of 1.00

Which of the following equations is true?

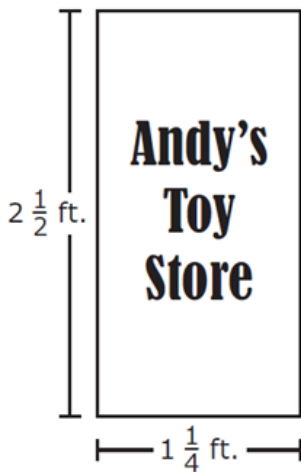
- ☐ a.  $0.12 \times 0.3 = 0.36$
- ☐ b.  $0.34 + 5.2 = 8.6$
- ☐ c.  $0.97 - 0.05 = 0.47$
- ☐ d.  $0.56 \div 0.07 = 8$
- ☐ e.  $0.97 \times 0.5 = 0.48$

## Question 17

Not answered

Marked out of 1.00

Andy is painting a sign for his store. The sign is  $2\frac{1}{2}$  feet high and  $1\frac{1}{4}$  feet wide, as shown.



What is the area of Andy's sign?

- ☐ a.  $3\frac{1}{8}$  square feet
- ☐ b.  $2\frac{1}{8}$  square feet
- ☐ c.  $4\frac{2}{8}$  square feet
- ☐ d.  $3\frac{2}{8}$  square feet
- ☐ e.  $5\frac{1}{8}$  square feet



## Question 18

Not answered

Marked out of 1.00

Solve the following system of linear equations. Find the product  $xyz=?$

$$2x+y+z=4$$

$$x+y+2z=1$$

$$x-2y+z=-1$$

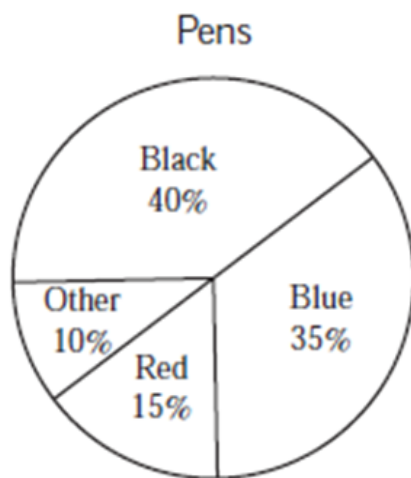
- ☐ a. -2
- ☐ b. 6
- ☐ c. 0
- ☐ d. 2
- ☐ e. -6

## Question 19

Not answered

Marked out of 1.00

A store sells different-colored pens. The circle graph below represents all pens for sale at the store.



There are 200 black pens for sale at the store. How many blue pens are for sale at the store?

- ☐ a. 190
- ☐ b. 70
- ☐ c. 150
- ☐ d. 115
- ☐ e. 175

## Question 20

Not answered

Marked out of 1.00

The value of  $\log_3 2 \cdot \log_4 3 \cdot \log_5 4 \cdot \log_6 5 \cdot \log_7 6 \cdot \log_8 7$  is-

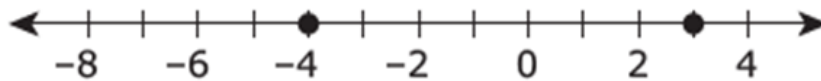
- ☐ a.  $\frac{1}{5}$
- ☐ b.  $\frac{1}{3}$
- ☐ c. 2
- ☐ d.  $\frac{1}{4}$
- ☐ e.  $\frac{1}{2}$

## Question 21

Not answered

Marked out of 1.00

Which of the following expressions represents the distance, in units, between the two points plotted on the number line?



- ☐ a.  $|-3 + 4|$
- ☐ b.  $3 - |-4|$
- ☐ c.  $|3 + (-4)|$
- ☐ d.  $3 + |-4|$
- ☐ e.  $3 + (-4)$

Question **22**

Not answered

Marked out of 1.00

Eric divided the sum of 5 and 7 by 6.

Which of the following is another way to express Eric's calculations?

- ☐ a.  $(7 + 5) : 6$
- ☐ b.  $6 : (7 + 5)$
- ☐ c.  $(7 \times 6) : 5$
- ☐ d.  $5 : (7 \times 6)$
- ☐ e.  $6 : (7 - 5)$

## Question 23

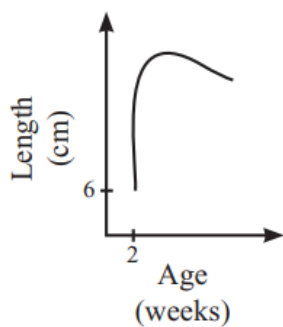
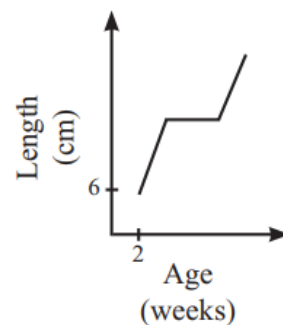
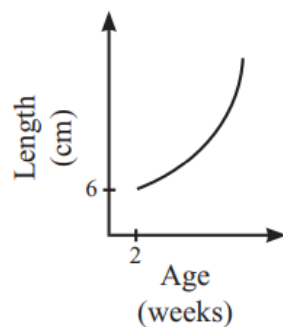
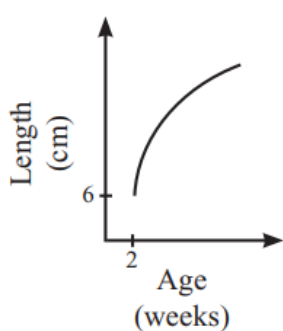
Not answered

Marked out of 1.00

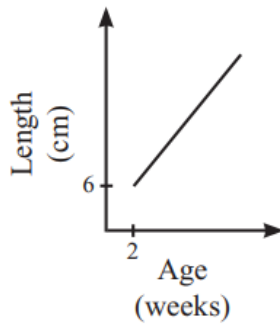
LENGTH OF A FISH

Age (in weeks)	2	3	4	5	6
Length (in centimeters)	6	15	20	22	23

The measurements of a certain fish at different ages are given in the table above. Which of the following graphs could represent the information in the table?

☐ a.☐ b.☐ c.☐ d.

☐ e.



Question **24**

Not answered

Marked out of 1.00

Amin has 16 pots of equal size. He used 9 bags of potting soil to fill 12 of the pots. At that rate, how many bags of potting soil does Amin need to fill the remaining 4 pots?

- ☐ a. 3
- ☐ b.  $1\frac{4}{5}$
- ☐ c.  $5\frac{1}{3}$
- ☐ d. 2
- ☐ e. 1

## Question 25

Not answered

Marked out of 1.00

This table lists some input and output values for a function,  $f(x)$ .

$x$	$f(x)$
-1	8.1
0	2.5
1	-1.1
2	-2.7

Which of the following statements correctly describes this function?

- ☐ a. On average,  $f(x)$  decreases by 3.6 units as  $x$  increases by 1 unit over the interval  $-1 \leq x \leq 2$ .
- ☐ b. On average,  $f(x)$  increases by 3.6 units as  $x$  increases by 1 unit over the interval  $-1 \leq x \leq 2$ .
- ☐ c. On average,  $f(x)$  increases by 2.6 units as  $x$  increases by 1 unit over the interval  $-1 \leq x \leq 2$ .
- ☐ d. On average,  $f(x)$  increases by 1.6 units as  $x$  increases by 1 unit over the interval  $-1 \leq x \leq 2$ .
- ☐ e. On average,  $f(x)$  decreases by 1.6 units as  $x$  increases by 1 unit over the interval  $-1 \leq x \leq 2$ .

## Question 26

Not answered

Marked out of 1.00

In the question below are given **two statements** followed by **two conclusions** numbered I and II. You have to take the two given **statements** to be **true** even if they seem to be at variance from commonly **known facts** and decide **which of the given conclusion(s) logically follow(s) from the two given statements**, disregarding commonly known facts.

**Statements** All Ds are As.  
All As are Cs.

**Conclusions** I. All Ds are Cs.  
II. Some Ds are As.

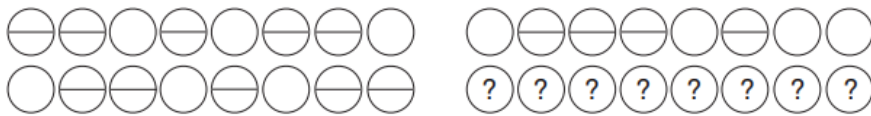
Give answer:

- ☐ a. if neither I nor II follows
- ☐ b. if only Conclusion II follows
- ☐ c. if either I or II follows
- ☐ d. if only Conclusion I follows
- ☐ e. if both I and II follow

## Question 27

Not answered

Marked out of 1.00



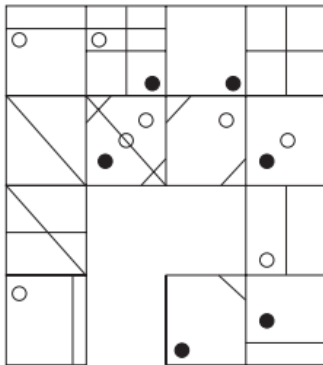
Which set of figures should replace the question marks?

- ☐ a.
- ☐ b.
- ☐ c.
- ☐ d.
- ☐ e.

## Question 28

Not answered

Marked out of 1.00



Which is the missing section?

- ☐ a.
- ☐ b.
- ☐ c.
- ☐ d.



## Question 29

Not answered

Marked out of 1.00

Replace the question mark (?) in the given series with suitable option.

**5, 11, 24, 51, 106, ?**

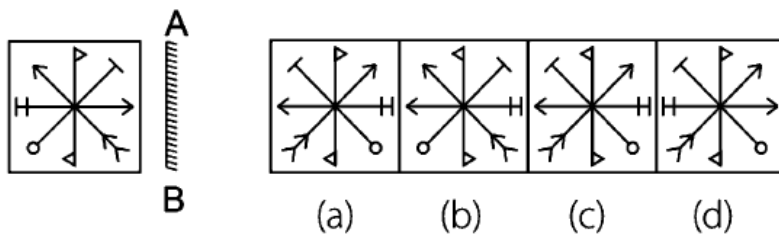
- ☐ a. 185
- ☐ b. 217
- ☐ c. 210
- ☐ d. 194
- ☐ e. 178

## Question 30

Not answered

Marked out of 1.00

In the following question, choose the **correct mirror image** from the alternatives (a), (b), (c) and (d), when **mirror** is placed on the **line AB**.



- ☐ a. (c)
- ☐ b. (d)
- ☐ c. (a)
- ☐ d. (b)

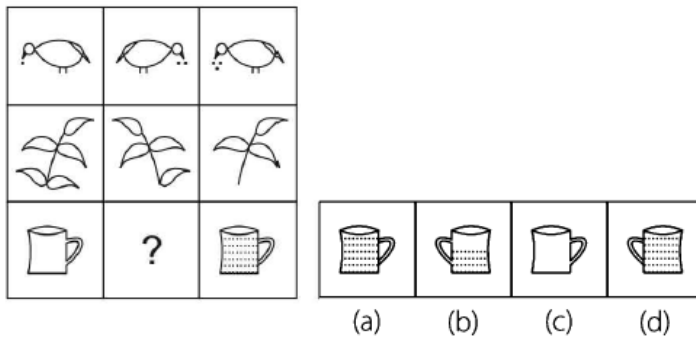
## Question 31

Not answered

Marked out of 1.00

In the following question, a **problem figure matrix** is given with one or more terms missing, followed by **four answer figures**.

**Find the correct answer figure that will replace?**

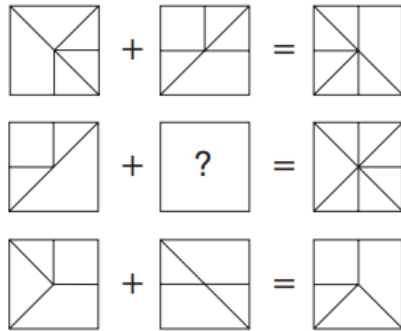


- ☐ a. (b)
- ☐ b. (a)
- ☐ c. (d)
- ☐ d. (c)

## Question 32

Not answered

Marked out of 1.00



Which is the missing square?

- ☐ a.
- ☐ b.
- ☐ c.
- ☐ d.
- ☐ e.

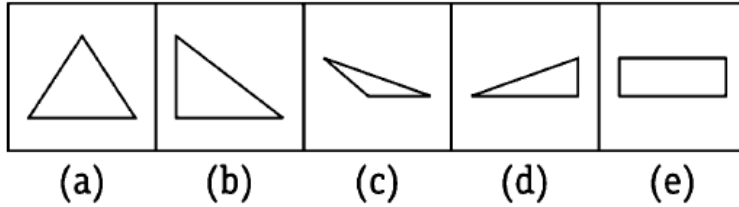
## Question 33

Not answered

Marked out of 1.00

In the following question, a group of **five figures** is given. Out of which **four figures** are **similar** to each other in a certain way and **one** is **different** from other.

Find the **odd figure** out.



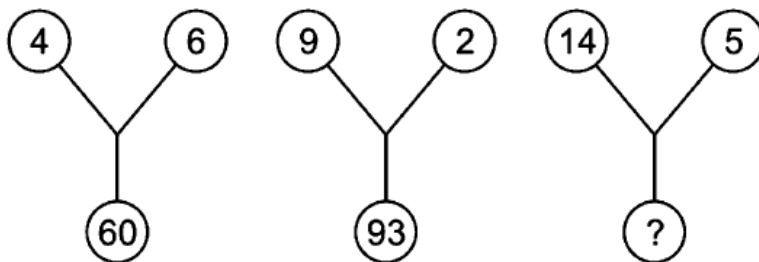
- ☐ a. (c)
- ☐ b. (a)
- ☐ c. (d)
- ☐ d. (e)
- ☐ e. (b)

## Question 34

Not answered

Marked out of 1.00

Find the missing character from the given alternatives.



- ☐ a. 145
- ☐ b. 67
- ☐ c. 229
- ☐ d. 95
- ☐ e. 148

## Question 35

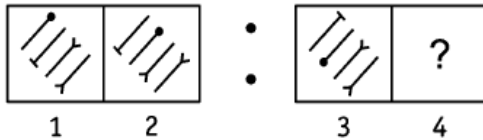
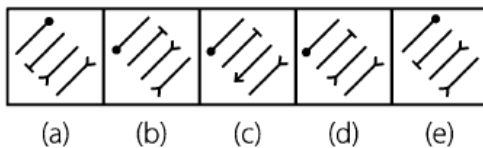
Not answered

Marked out of 1.00

The second figure in the first unit of the **problem figures** bears a certain relationship to the first figure.

Similarly, one of the figure in the **answer figures** bears the same relationship to the first figure in the second unit of the **problem figures**.

**Find the figure from** the set of **answer figures** which would come in the place of question mark (?).

**Problem Figures****Answer Figures**

- ☐ a. c
- ☐ b. a
- ☐ c. d
- ☐ d. e
- ☐ e. b

## Question 36

Not answered

Marked out of 1.00

In this type of question, **a statement/statements is/are given** followed by some conclusions.

**Choose the conclusion** which follows the given statement. Which of the conclusions can be drawn from the statement.

**Statement**

- All guilty politicians were arrested.
- Ramzes and Kamal were among those arrested.

- ☐ a. Ramzes and Kamal were not politicians
- ☐ b. All arrested people are politicians
- ☐ c. All politicians are guilty
- ☐ d. Ramzes and Kamal were guilty

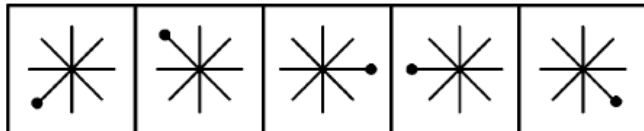
## Question 37

Not answered

Marked out of 1.00

In the question, a group of 5 figures following a certain sequence is given as problem figures. Problem figures are followed by another group of five figures known as answer figures marked as (a), (b), (c), (d) and (e).

Find out one figure from **the answer figures** which when placed next to the problem figures will continue the sequence of problem figures. (*P.S: your choice is 6th figure*)

**Problem Figures**

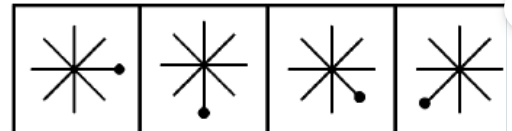
1

2

3

4

5

**Answer Figures**

(a)

(b)

(c)

(d)

- ☐ a. e
- ☐ b. c
- ☐ c. b
- ☐ d. d
- ☐ e. a

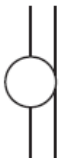
Question 38

Not answered

Marked out of 1.00



What comes next?

☐ a.☐ b.☐ c.☐ d.☐ e.

## Question 39

Not answered

Marked out of 1.00

In the question below, is given a **statement** followed by **three assumptions** numbered **I, II and III**. An assumption is something supposed or taken for granted, you have to consider the statement and the assumptions and decide **which of the assumption(s) is/are implicit in the statement**.

**Statement** "To make a company commercially viable there is an urgent need to prune the staff strength and borrow money from the financial institutions.", opinion of a consultant.

**Assumptions**

- I. The financial institutions lend money for such proposals.
- II. The product of the company has a potential market.
- III. The employees of the company are inefficient.

- ☐ a. I and II are implicit
- ☐ b. All are implicit
- ☐ c. **None** is implicit
- ☐ d. I and III are implicit
- ☐ e. Only Assumption II is implicit

## Question 40

Not answered

Marked out of 1.00

Each set of nine numbers relates to the other in a certain way. Work out the logic behind the numbers in the left-hand box in order to determine which number is missing from the right-hand box.

4	9	8		6	8	7
8	7	7		9	7	3
3	7	9		2	8	?

- ☐ a. 2
- ☐ b. 3
- ☐ c. 6
- ☐ d. 4
- ☐ e. 5



Question **41**

Not answered

Marked out of 1.00

**He went to the Stadium .....**

- ☐ a. with taxi
- ☐ b. on taxi
- ☐ c. by taxi
- ☐ d. in taxi

Question **42**

Not answered

Marked out of 1.00

**Choose correct sentence.**

- ☐ a. Ask her when will the food ready be
- ☐ b. Ask her when will be ready the food
- ☐ c. Ask her when will be the food ready
- ☐ d. Ask her when the food will be ready

Question **43**

Not answered

Marked out of 1.00

**Thank you. You've been very \_\_\_\_\_.**

- ☐ a. enough
- ☐ b. helpful
- ☐ c. cruel
- ☐ d. ideal

## Question 44

Not answered

Marked out of 1.00

**Choose the most appropriate answer.**

John liked chocolates very much, but his mother never gave him any, because they were bad for his teeth, she thought. But John had a very nice grandfather. The old man loved his grandson very much, and sometimes he brought John chocolates when he came to visit him. Then his mother let him eat them, because she wanted to make the old man happy. One evening, a few days before John's seventh birthday, he was saying his prayers in his bedroom before he went to bed. "Please, God" he shouted, "make them give me a big box of chocolates for my birthday on Saturday". His mother was in the kitchen and she heard the small boy shouting and went into his bedroom quickly. "Why are you shouting, John?" she asked her son, "God can hear you when you talk quietly" "I know" answer the clever boy with a smile, "but Grandfather's in the next room, and he can't".

**Which sentence is not true according to the passage?**

- ☐ a. John was fond of chocolate.
- ☐ b. He wanted a big box of chocolate for his birthday.
- ☐ c. While he was praying that day his grandfather was in the next room.
- ☐ d. His mother was too poor to give him a big box of chocolate.

## Question 45

Not answered

Marked out of 1.00

**She worked hard yesterday and ..... finish everything.**

- ☐ a. let
- ☐ b. was able to
- ☐ c. can
- ☐ d. is hard

## Question 46

Not answered

Marked out of 5.00

In order to  children, many qualities are required. As well as the  requirements such as love, patience and understanding, a sense of humour is an important feature of any parent's personality. , it's quite an art to transform a child's bad mood into  everyone in the family can live with.

Another aspect of child rearing is teaching children limits and rules. This means the child needs to be  of what his or her rights are and what other people's are, too. Setting limits on children must occur on a daily basis. Temporary measures don't achieve anything but just waste time.

**Read the text and decide which answer best fits each gap.**

