

# Research on Measuring Learning

## ENGLISH | MATHS | SCIENCE

**CLASS**

**4**

### INSTRUCTIONS

1. Please use the answer sheet provided to you. For each question there are four options A, B, C and D. Only one of these options is correct. Blacken only ONE oval next to each questions.
2. At the end of these multiple choice questions THERE IS AN ENGLISH ESSAY. Please plan your time accordingly.
3. Please return the question booklet after completing the test.

**DURATION**

**75**  
mins.

**NO. OF QUESTIONS**

**60**

**PAPER CODE**

**402**

Read 'The Shorter Line' and answer questions 1 to 5.

### The Shorter Line



One day, Emperor Akbar decided to test the intelligence of all his courtiers. So he called for a meeting to be held at his court.

Once all the courtiers had **assembled**, the Emperor got down from his throne and drew a line on the ground with a piece of chalk. "Now", he said to his courtiers, "I want to see if any one of you can make this line shorter without touching it in any way." He then looked up to see all the courtiers looking very puzzled. "Ha!" thought he, "not even my wise minister Birbal can solve this riddle."

No sooner had the Emperor thought so, than Birbal took a piece of chalk and drew another longer line below the line the Emperor had drawn. "Your majesty, now the line you drew has become shorter, is it not so?" asked Birbal with a small smile on his lips. Emperor Akbar laughed heartily at his favourite minister's cheekiness while admitting his quick wit too.

**1 Akbar held a meeting at his court to**

- A. talk to his courtiers .
  - B. entertain his courtiers.
  - C. test his courtiers' cleverness.
  - D. know his courtiers' problems.
- 

**2 'Assembled' means**

- A. decorated.
  - B. gathered.
  - C. stood in line.
  - D. came about.
- 

**3 The courtiers appeared puzzled because they thought that Akbar had asked them to do**

- A. a foolish task.
  - B. a frightening task.
  - C. an impossible task.
  - D. an easy task.
- 

**4 How did Birbal outwit the Emperor?**

- A. He cut out the line which the Emperor had drawn.
  - B. He drew a line which was shorter than the Emperor's line.
  - C. He drew a line which was longer than the Emperor's line.
  - D. He drew a line of the same size as the Emperor's line.
- 

**5 Which words tell us that the Emperor liked Birbal?**

- A. wise minister
- B. favourite minister
- C. cheekiness
- D. quick wit

Here are pictures of two wrappers. The information printed on the wrappers has been enlarged. Read them carefully and answer questions 6 to 9.



PARLE PRODUCTS MUMBAI - 25  
SUGAR BOILED CONFECTIONERY  
CONTAINS PERMITTED SYNTHETIC  
COLOURS AND ADDED FLAVOUR



SUGAR BOILED CONFECTIONERY PARLE PRODUCTS MUMBAI 25  
CONTAINS ADDED FLAVOUR

NET WEIGHT 18g  
MAX. RETAIL PRICE Rs 1.50  
INCLUSIVE OF ALL TAXES

STORE AT ROOM TEMPERATURE ONLY  
REFRIGERATION WILL HARDEN THE PRODUCT

**6** Kismi and Mango Bite are

- A. sweets
- B. ice-creams
- C. toys
- D. fruits

**7** Mango Bite

- A. contains orange juice.
- B. is round in shape.
- C. is blue in colour.
- D. is sugar boiled.

**8** In which of these ways are the two alike?

- A. A company called Parle makes both of them.
- B. Both their wrappers are red coloured.
- C. Both are of the same size.
- D. Both wrappers are made of paper.

**9** What can happen if the Kismi Bar is stored in a refrigerator?

- A. It will become hard.
- B. It will become long.
- C. It will melt.
- D. It will get eaten by ants.

Read the poem 'The Measure By' and answer questions 10 to 14.

## THE MEASURE BY

Granny gave me an inch-tape  
And, although I cannot sew,  
I carry it around with me,  
To measure things, you know.

↓  
I tried to measure Daddy,  
But he was much too tall,  
So I measured our old pussycat,  
Lying on the garden wall.

I measured a caterpillar,  
On the kitchen window sill,  
I'd like to measure my baby brother,  
But he won't be still!

↓  
I'd like to measure an elephant;  
That would be rather nice,  
But, sad to say, I haven't one;  
So I'll measure my two white mice.

**10** What are inch tapes used for?

- A. They are used to tape things together.
- B. They are used to colour things.
- C. They are used to measure things.
- D. They are used to carry around everywhere.

**11** What did the little boy measure with the inch tape?

- A. He measured his daddy.
- B. He measured his old pussycat.
- C. He measured his baby brother.
- D. He measured an elephant.

**12** Why can the child not measure an elephant with his inch tape?

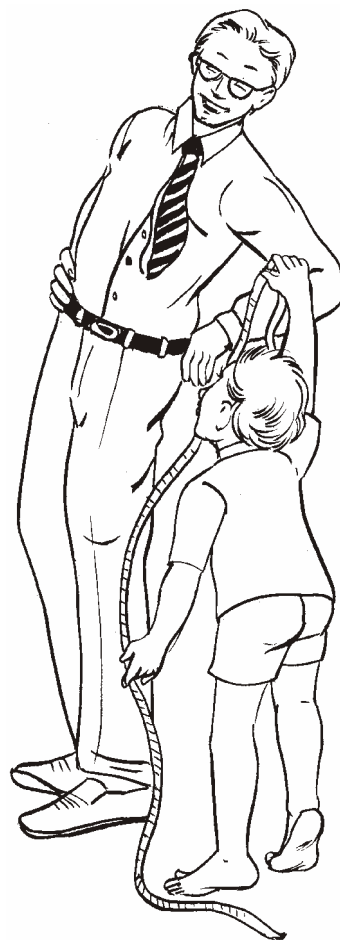
- A. He has to measure his two white mice.
- B. An elephant would not sit still.
- C. An elephant is too huge.
- D. He does not have an elephant.

**13** The poem tells us that the little boy was

- A. excited with the inch tape.
- B. angry with the inch tape.
- C. frightened of the inch tape.
- D. sad to have an inch tape.

**14** The word that rhymes best with 'sew' is

- A. few
- B. new
- C. pew
- D. show



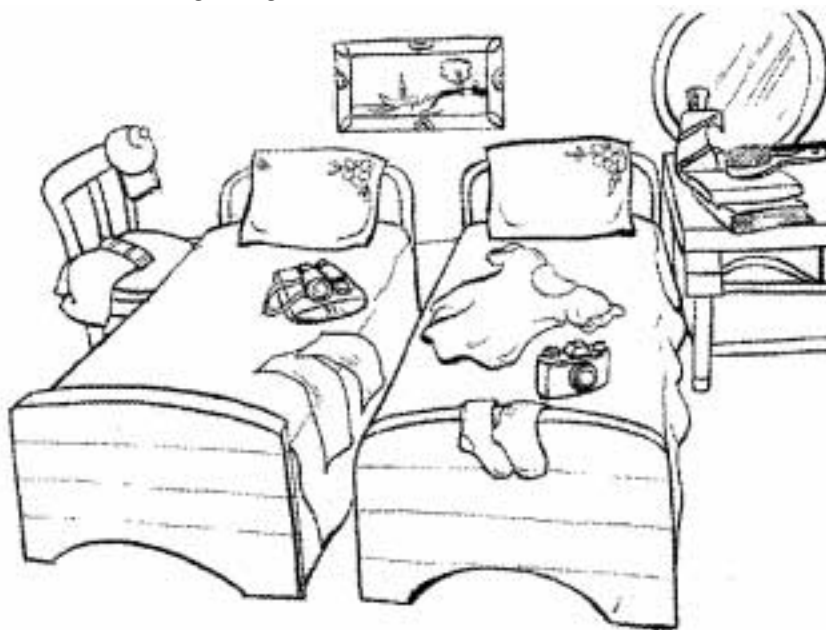
Given below is a short passage with blanks. Each blank has a question number. Choose the best word to fill each blank. One of them (14A) is done as an example.

Do you know why the sea is blue (14A) colour? The sea appears blue (15) it reflects the blue colour of the sky. On a cloudy, grey day, the sea (16) grey. The Red Sea often looks red because of red algae that live in the sea. (17) Black Sea looks black because it (18) a high concentration of a chemical which appears black.

- 14A A. of  
B. in → Here the correct choice is B. in (...sea is blue in colour)  
C. from  
D. to

15 A. so B. because C. while D. and	16 A. appeared B. appearing C. appears D. appear	17 A. A B. The C. An D. (no article)	18 A. has B. have C. had D. will have
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Questions 19 and 20 are based on the figure given below.



- 19 This picture tells us that Govind is probably  
A. a neat person and keeps his room tidy.  
B. a messy person and scatters his things about.  
C. less than three years old.  
D. a talented sportsman.
- 20 The chair is  
A. beneath a bed.  
B. behind the cupboard.  
C. beside a bed.  
D. near the mirror.

**21** In the question below, choose the word that is spelt wrongly

- A. neice
  - B. friend
  - C. seize
  - D. cease
- 

**22** Identify the word that means "a kind of weapon" by rearranging the letters in "REAPS"

- A. pares
  - B. spare
  - C. spear
  - D. pears
- 

**23** Which of these is a correct answer to the question - "Do you like English?"

- A. "Yes, I like."
- B. "Yes, I'm liking it."
- C. "Yes, I do."
- D. "Yes, it I like."

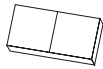
USE THIS PAGE FOR  
**ROUGH WORK**



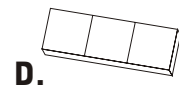
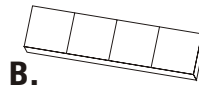
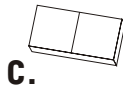
**24** What is  $708 + 99$ ?

- A. 7917
- B. 1698
- C. 807
- D. 797

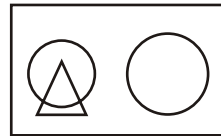
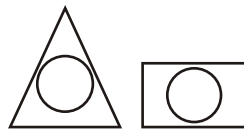
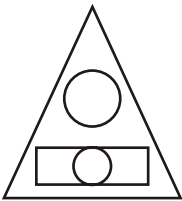
**25** If this is **HALF** of a chocolate bar:



Which of the following is the **FULL** bar?



**26** Which of the figures shown here can we describe as 'Two circles and a triangle inside a rectangle'?



**27** A part of a calendar is shown below.

**JUNE 2001**

SUN	MON	TUE	WED	THU	FRI	SAT
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

What was the date on the last Sunday of May that year?

- A. 26<sup>th</sup>
- B. 27<sup>th</sup>
- C. 30<sup>th</sup>
- D. 31<sup>st</sup>

28 In which of these numbers does 3 have the greatest value?

- A. 136
- B. 239
- C. 301
- D. 743

29 A classroom has a wall chart listing numbers from 1 to 100. A PART of it is shown here. See it and answer the question.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	
41	42	43							

Another small part of the same chart is given below.

		?
54	55	

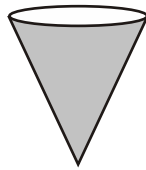
What number should come in the box with the question mark inside?

- A. 35
- B. 44
- C. 46
- D. 66

30 Which of these is a triangle?



A.



B.



C.



D.

31  $0 * 13 = 0$

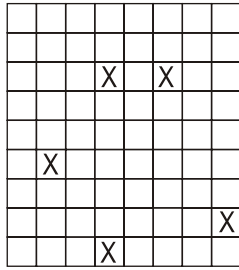
This will be true if \* is replaced by

- A. + or -
- B. x or ÷
- C. x or +
- D. ÷ or +

32 The unit 'grams' could be used to tell

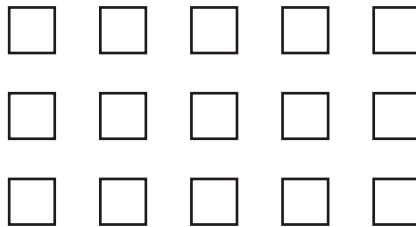
- A. the number of mangoes in a box.
- B. the space occupied by a book
- C. how heavy your pencil box is.
- D. the thickness of a dictionary.

33 How many squares in the grid below do NOT have cross marks (X) in them?



- A. 95
- B. 76
- C. 67
- D. 59

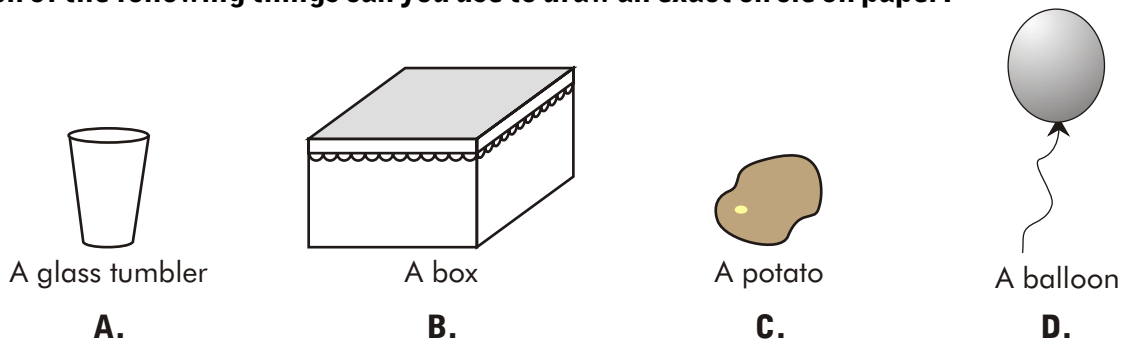
34 Study this pattern of boxes carefully.



Which of these would be a CORRECT way of counting the total number of boxes in this pattern?

- A.  $5 \div 3$
- B.  $3 + 5 + 3 + 5$
- C.  $3 \times 3 \times 3 \times 3 \times 3$
- D.  $5 + 5 + 5$

35 Which of the following things can you use to draw an exact circle on paper?



A glass tumbler

A box

A potato

A balloon

A.

B.

C.

D.

36 See the pattern shown below.

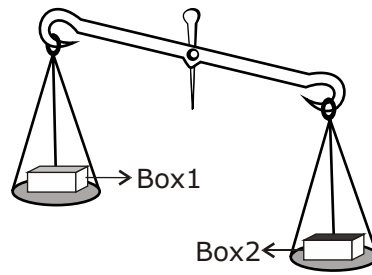
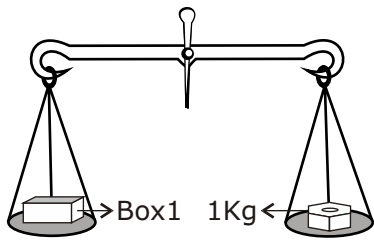


The 1<sup>st</sup> symbol is a ★, the 2<sup>nd</sup> is a ❀, the 3<sup>rd</sup> symbol is again a ★ and so on.

If this pattern is continued, which of these symbols will be a ❀ ?

- A. 21<sup>st</sup>
- B. 27<sup>th</sup>
- C. 30<sup>th</sup>
- D. 35<sup>th</sup>

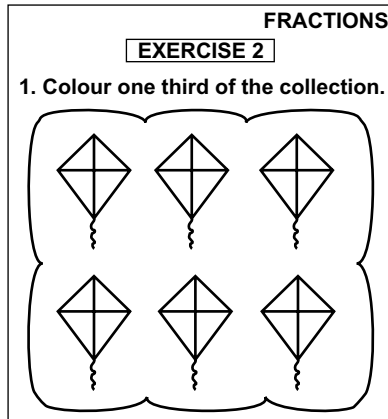
37 Look at the weighing scales shown below.



Which statement about the weight of **BOX 2** is true?

- A. It is equal to 1 kg
- B. It is more than 1 kg
- C. It is less than 1 kg
- D. It is equal to 500 g

38 This is a page from Jaffer's Maths book:



How many kites should Jaffer colour?

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

39 Which of the following is correct?

- A.  $8 - 4 = 4 + 8$
- B.  $4 + 8 = 4 \times 8$
- C.  $8 \times 4 = 8 \div 4$
- D.  $8 \times 4 = 4 \times 8$

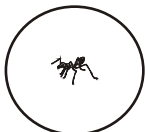
<b>SOLID</b>	<b>LIQUID</b>	<b>GAS</b>
<b>Candle</b>	<b>Orange juice</b>	<b>Steam</b>
<b>Eraser</b>	<b>Water</b>	<b>Ice-cube</b>

Which of these has been put under the wrong heading above?

- A. water
- B. candle
- C. steam
- D. ice cube

41 Here is the picture of an ant. 

When seen through a magnifying glass,  it will look like:



A.



B.



C.



D.

42 The earth's rotation on its axis is the reason for

- A. the different seasons.
- B. longer days in summer.
- C. eclipses.
- D. day and night.

43 All living things can be grouped as **PLANTS** or **ANIMALS**. Which of these in the list below are **ANIMALS**?

**FISH**

**FLY**

**MAN**

**LION**

**GRASS**

**CROCODILE**

- A. All are animals.
- B. Lion and crocodile are animals.
- C. Lion, man and crocodile are animals.
- D. Lion, man, crocodile, fly and fish are animals.

44 Which of the following nutrients is very important for building bones and teeth?

- A. Calcium
- B. Iron
- C. Vitamins
- D. Fats

45 Here is some information on whether oil paint dissolves in different substances or not.

Cold water	Hot water	Spirit	Kerosene
No	No	No	Yes

A painter used oil paint to paint the walls of a house. Which of these substances will help him clean the brush?

- A. Kerosene
- B. Hot water
- C. Spirit
- D. Cold water

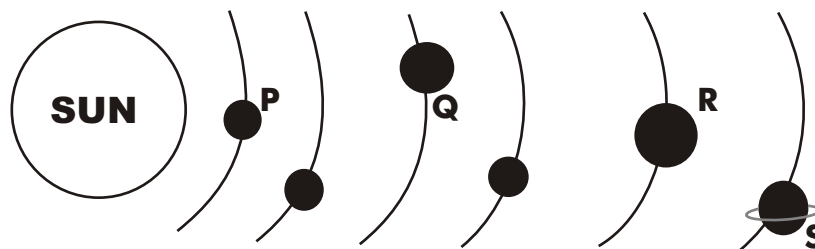
46 Some of the organs in our body exist in pairs. Which of the following organs exists in a pair?

- A. Heart
- B. Lung
- C. Stomach
- D. Nose

47 Cooking gas leaks from a cylinder. How will it be known that gas is leaking?

- A. From the special smell the gas has.
- B. From the colour of the gas.
- C. From the colour of particles in it.
- D. Drops of liquid will be seen near the gas cylinder.

48 The given picture shows the position of some planets in our solar system. Identify the planets P, Q, R and S.







	P	Q	R	S
A.	Mars	Jupiter	Neptune	Saturn
B.	Venus	Jupiter	Neptune	Saturn
C.	Mercury	Mars	Jupiter	Uranus
D.	Mercury	Earth	Jupiter	Saturn

49 Which of these is/are examples of EVAPORATION?

1. water changing to water vapour from oceans and rivers.
2. water changing to water vapour from a glass kept in the open.
3. water vapour changing to water to produce rain

- A. only 1
- B. only 1 and 2
- C. only 2
- D. 1, 2 and 3

50 The beaks of birds can tell us what they eat, and how they eat it. Study the information below:

			
<b>NUT CRACKER</b> Thick, conical beak, good for opening hard outer shells of seeds to reach the tasty interior	<b>INSECT CATCHER</b> Long pointed beak helps to probe (search) for insects on the ground.	<b>FLESH EATER</b> Strong, hooked beak ideal for tearing flesh into smaller pieces for eating.	<b>NECTAR SIPPER</b> Long tube-like beaks like straws, are used to sip nectar from flowers.

Here is a picture of a bird whose beak is not shown. This bird feeds on dead animals. The beak of this bird will look like which of the ones above?

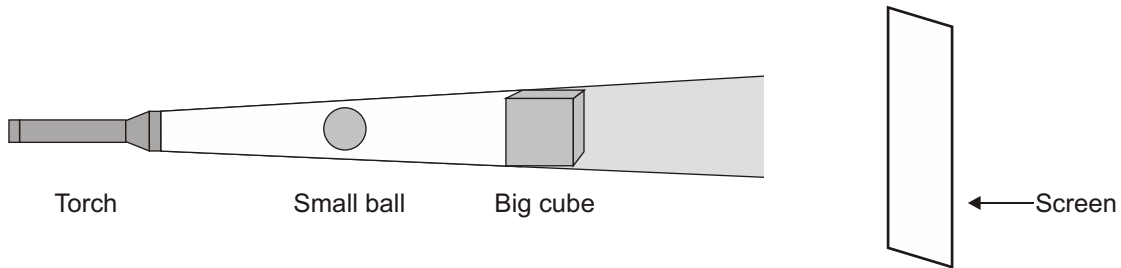


- A. nut cracker
- B. insect catcher
- C. flesh eater
- D. nectar sipper

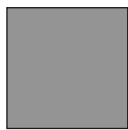
51 When the earth is seen from outer space, it looks mainly blue. This is because most of the earth is covered with \_\_\_\_\_.

- A. Forests
- B. Mountains
- C. Oceans
- D. Deserts

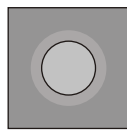
52 A torch, a small ball, a cube and a screen are arranged as shown below.



What will the shadow on the screen look like?



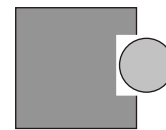
A.



B.

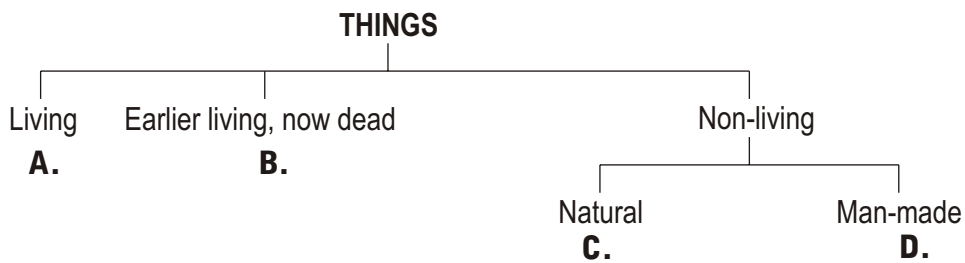


C.



D.

53 Under which of these heading would you put dried leaves?



54 Which of these vehicles would cause the LEAST pollution?



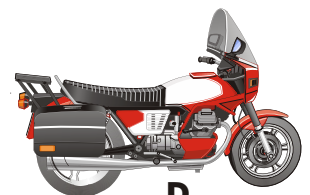
A



B



C



D



**55** Among the following, which is the closest to the Earth?

- A. The Sun
- B. Venus
- C. The Moon
- D. Mars

### FEEDBACK QUESTIONS

**56** Which subject do you like the **MOST**?

- A. English
- B. Maths
- C. Science / EVS
- D. Another subject

**57** For which subjects do you go for tuitions?

- A. Maths only
- B. Maths and Science
- C. English, Maths, Science
- D. I do not go for tuitions

**58** What time do you spend daily on reading material other than textbooks (comics, storybooks, novels, newspapers, magazines, etc.)?

- A. Do not read at all
- B. Less than 30 minutes
- C. 30 minutes to 1 hour
- D. More than 1 hour

**59** How good are you at studies?

- A. Very good - among the top 5 in the class
- B. Not in the top five, but among the top 10
- C. about average
- D. not good at studies.

**60** Do you have a computer at home?

- A. Yes
- B. No

Given below are two topics. Attempt ANY ONE of them on the OPPOSITE PAGE.

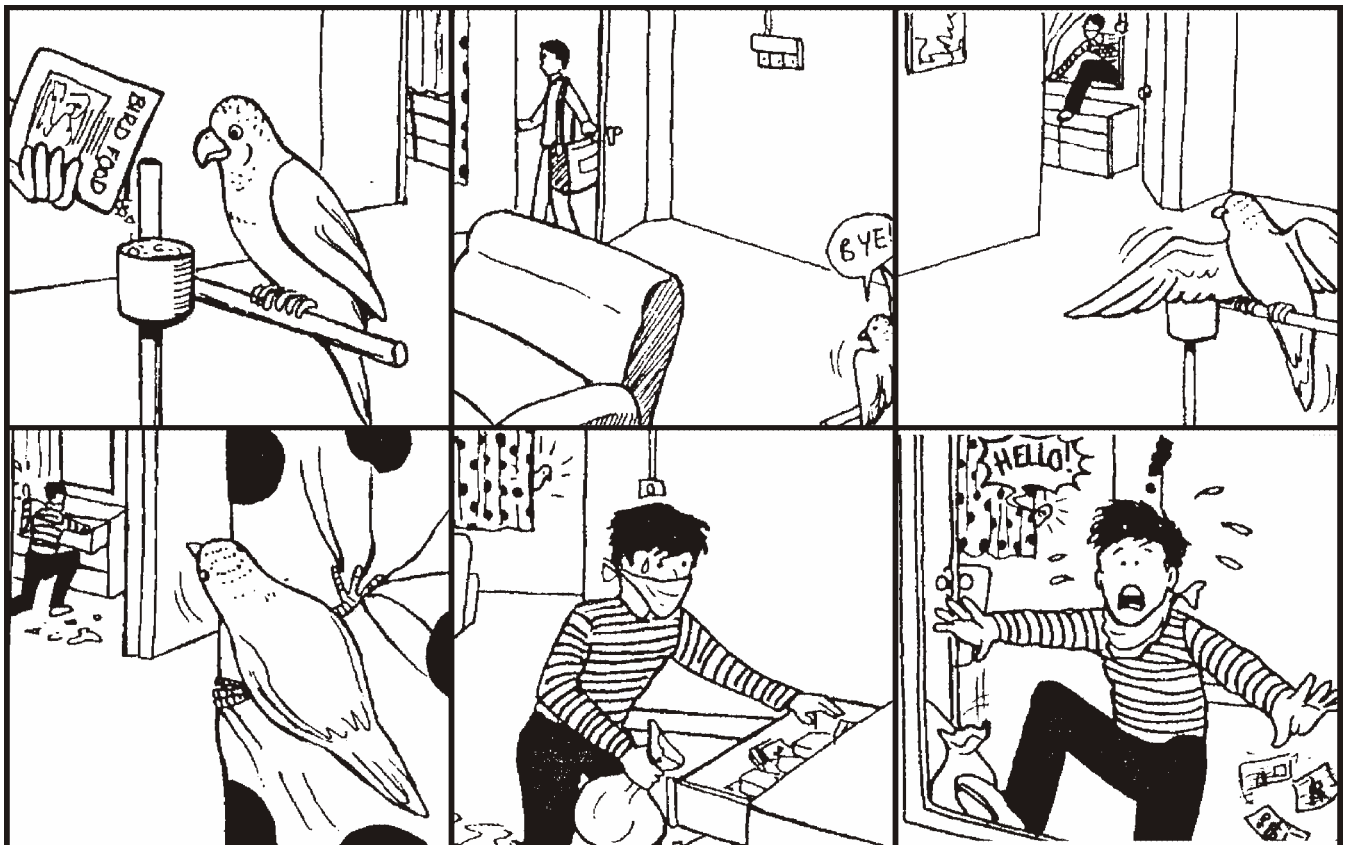
Write in about 6-8 lines, a short composition on the topic 'The Day I Received a Surprise Gift'. The composition must include the points given below. You may include your own points too.

- the date and place of the incident
- the person you received it from
- a description of the gift you received
- your feelings on receiving the gift

OR

Look at the pictures carefully. Write a short story of about 6-8 sentences based on the pictures. Your story must include the points given below. You may include your own points too.

- a title for the story
- the characters in the story
- a detailed description of what happened



USE THIS PAGE FOR THE  
**ENGLISH ESSAY**

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**This test is part of a research study being conducted by Educational Initiatives, the makers of ASSET, with the support of Wipro Ltd. EI and Wipro would like to thank all participating schools and students for their support and cooperation in this study. For more details, please email us at [metrostudy@ei-india.com](mailto:metrostudy@ei-india.com)**

**This test is not a competition, but is being conducted as a part of a study to help us understand how much students like learning and how much of what they learn is really understood well! SO PLEASE DO YOUR VERY BEST without becoming nervous.**

