

Research on Measuring Learning

ENGLISH | MATHS | SCIENCE

CLASS

6

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

105
mins.

NO. OF QUESTIONS

75

PAPER CODE

602

Read the extract of one of the several escapades of Tenali Raman and answer questions 1 to 6.

Tenali Raman

Once Tenali Raman fell sick. His wife was worried and called a doctor. The doctor said, "I will treat your husband. But you must pay me first."

Tenali's wife did not have much money with her. She told the doctor, "I don't have money now, but I will sell off my husband's expensive horse and pay you later."

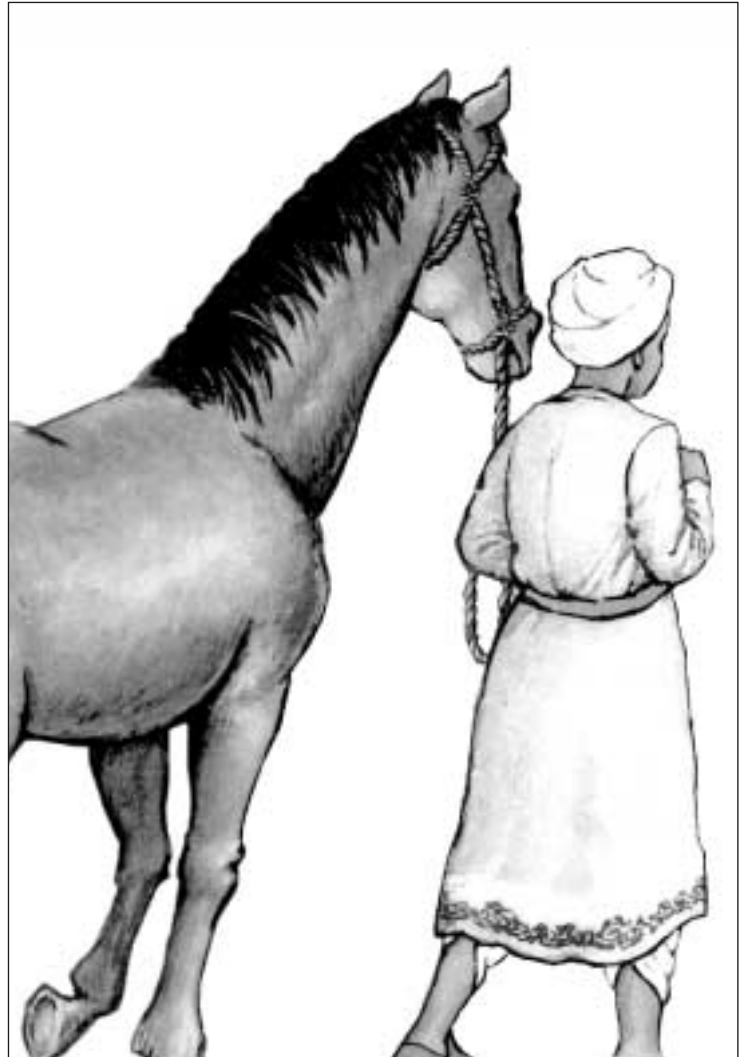
The doctor knew that the horse was a gift from the king and would fetch at least two hundred gold coins. He said, "You must promise that you will pay me all the money you get from selling the horse." Tenali's wife, whose only wish was that her husband should get well quickly, agreed. Only then did the doctor start treating Tenali.

Either Tenali was lucky or the medicines had their effect, for soon he grew well again. Coming to know of the doctor's condition, he quietly found out the sum doctors normally took for curing such a disease and decided to pay only the rightful fee.

When the doctor came to demand his reward, Tenali went with him to the market taking the horse. Tenali also took a cat along. The doctor was rubbing his hands in expectation of the unheard-of reward.

When they reached the market, Tenali shouted loudly: "I am selling a cat and a horse! The cat is going for 190 and the horse for 10 gold coins!"

The horse being of a rare Arabian breed, a purchaser soon turned up and paid the full sum for the cat and the horse. Tenali took the money and giving 10 gold coins to the doctor, said, "I am giving you all I have got for the horse!"



1 Which of these would be a suitable title for the passage?

- A. The Expensive Cat
 - B. Tenali Raman's Wife
 - C. From the Horse's Mouth
 - D. Two Hundred Gold Coins
-

2 Which of these words means the same as 'expensive'?

- A. moderate
 - B. dear
 - C. handsome
 - D. cheap
-

3 "The doctor was rubbing his hands in expectation of the unheard-of reward."

What does this statement tell us about the doctor?

- A. He was a simple man who was satisfied with whatever reward was given to him.
 - B. He would probably take advantage of any situation to make more money.
 - C. He was concerned about Raman's cure and anything else did not matter.
 - D. He loved animals and was keen to own the expensive Arabian horse.
-

4 'Tenali Raman' quietly found out the sum doctors normally took for curing such a disease'

This amount probably was:

- A. hundred gold coins
 - B. ninety gold coins
 - C. ten gold coins
 - D. two hundred gold coins
-

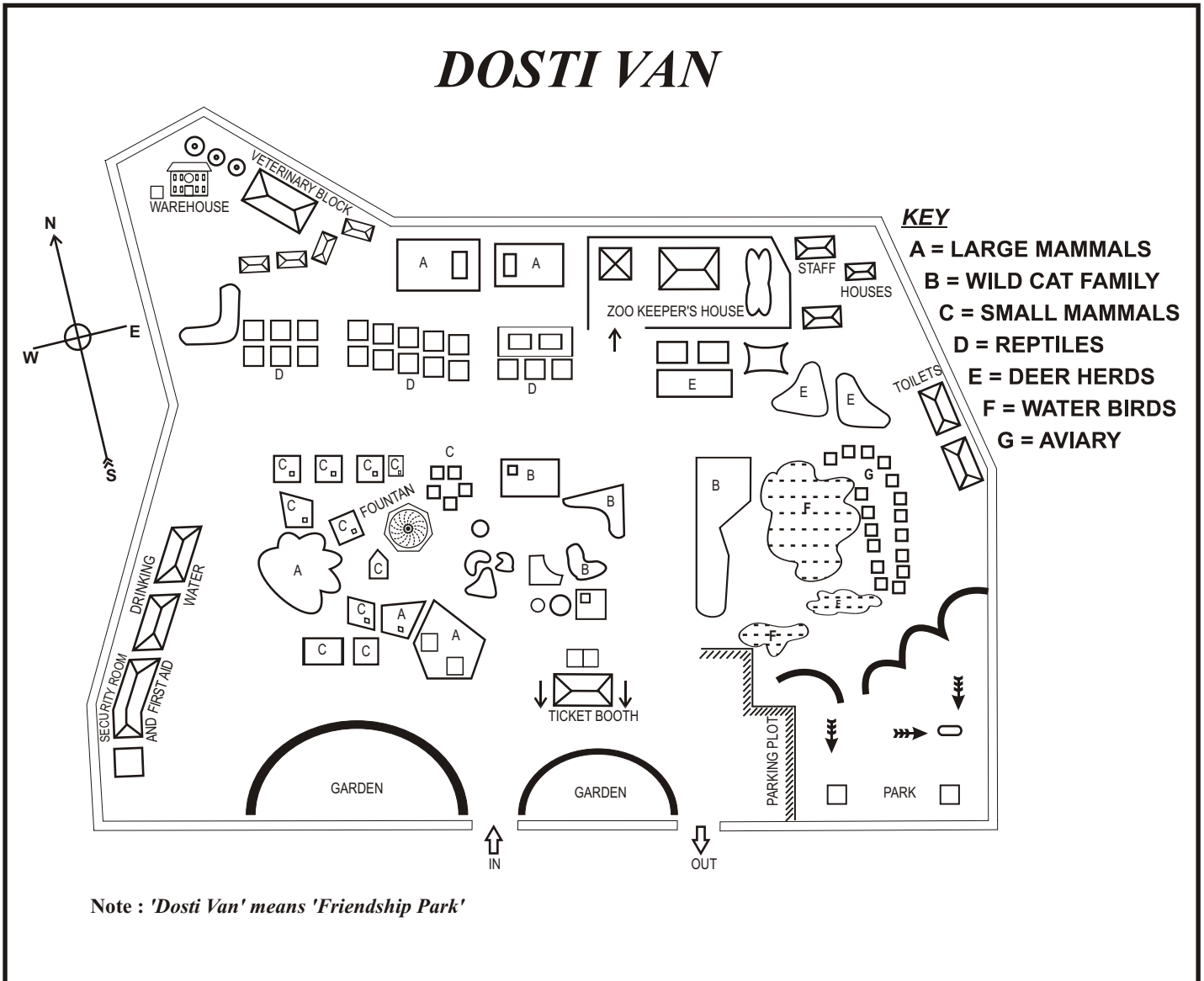
5 From this story, we can infer that Tenali Raman is a

- A. clever man
 - B. dishonest man
 - C. foolish man
 - D. selfish man
-

6 It is likely that after this incident, the doctor decided to

- A. stop treating sick patients.
- B. never go to the market.
- C. complain to the king.
- D. have nothing to do with Tenali.

Look carefully at the layout of 'Dosti Van' and answer questions 7 to 12.



7 The animals closest to the staff houses are the

- A. Water birds
- B. Deer herds
- C. Wild cats
- D. Reptiles

8 Animals needing medical attention will be taken to the

- A. Veterinary Block.
- B. Warehouse.
- C. First Aid room
- D. Ticket Booth

9 Suresh wants to see lions and tigers. In which block will he find them?

- A. Block A
- B. Block B
- C. Block C
- D. Block D

10 Which is the shortest route to reach the zoo keeper's house from the entrance?

- A.** Walk straight past the ticket booth towards the fountain, walk between the small mammals and turn right to reach there.
 - B.** Walk left from the entrance towards the reptile pond; turn right between the small mammals and reptiles to reach there.
 - C.** Walk to the right from the entrance passing the ticket booth, cross the water birds and aviary and turn left to reach there.
 - D.** Walk straight passing behind the ticket booth, turn right and walk along the wild cat family and reptiles on the left to reach there.
-

11 The PARK is in the _____ part of Dosti Van.

- A.** north - eastern
 - B.** south - western
 - C.** south - eastern
 - D.** north - western
-

12 In an AVIARY, we find:

- A.** fishes
- B.** birds
- C.** snakes
- D.** monkeys

Read the poem, 'The Magical Bicycle' and answer questions 13 to 18.

The Magical Bicycle

My best surprise
was my shining bike
with its silver voice
But I couldn't ride it.

Every time I tried, it
threw me off.
I think it thought
It was a horse.

I bruised my knees.
I banged my chin.
I tried again, again, again.

Dad ran up the entry, holding on
and then he ran all the way down
and panted all the way up again.

"Just turn your legs!"
He grew tired and slow,
"you won't fall off."
And I never did
Till he let go.



And one day,
I must have said it,
The magic word.
I didn't hear it.
Or think it.
It must have been
in a quiet bit of my mind.

There was Dad, running behind me.
I could hear his footsteps
getting fainter and fainter,
and I could feel the air
on my face and in my hair,
I could feel my own power
I could feel my own strength
I could hear the wheels turning
my legs were like pistons
and I knew I could do it
I could cycle forever.

Source: "The Magical Bicycle" - Walking on Air - Berlie Doherty - Hodder Children's Books

13 The poet has written this poem in order to describe

- A. an achievement.
- B. a vehicle.
- C. a relationship.
- D. nature.

14 What information from the poem suggests that the child's inner voice urged him on to his achievement?

- A. the reference to his father's instructions
- B. the reference to his father's footsteps
- C. the reference to a magic word
- D. the reference to the power in his legs

15 In which of these lines is an object without life spoken of as having the qualities of a human being?

- A. ...it threw me off
- B. "Just turn your legs!"
- C. Till he let go
- D.my legs were like pistons

16 Which of these is the closest in sound to 'hair'?

- A. near
 - B. hear
 - C. pear
 - D. fear
-

17 Which of these questions is answered in stanza 5 ("Just turn your legs" .. to .. "Till he let go.")?

- A. What would happen after the father left the bike?
 - B. How many days did the boy take to learn cycling?
 - C. Why was the poet not turning his legs as advised?
 - D. In which place was the boy learning cycling?
-

18 Which of these lines indicates that the child had mastered balancing on the cycle?

- A. And I never did...
 - B. I must have said it,
 - C. and panted all the way up again.
 - D. And I knew I could do it
-

19 Which option explains the proverb 'Don't put the cart before the horse.'

- A. Do the more important things first.
 - B. Do not overload a person or animal.
 - C. Do not tempt a person or animal.
 - D. Do not block and prevent work.
-

20 Choose the best answer for the question: "When do you write to your friends?"

- A. 'I don't know.'
 - B. 'I write to my friends at home.'
 - C. 'I write to my friends whenever I have the time.'
 - D. 'I don't like to do it.'
-

21 Choose the word which relates best with the word 'snake'? (Look at 'fox' and 'fur' for a hint.)

- "Fox is to fur as snake is to _____."
- A. slimy
 - B. scales
 - C. skin
 - D. sting
-

22 Which among the list of words given below is **DIFFERENT** from the rest?

- A. huge
 - B. terrifying
 - C. gigantic
 - D. enormous
- huge terrifying gigantic enormous immense
-

23 Choose the correct expression to replace the underlined words.

"The woman said that the little boy was her favourite child."

- A. the apple of her eye
- B. an arm and a leg
- C. all thumbs
- D. her heart

24 Identify the word which is a term in geometry, formed by rearranging the letters in the word 'glean'.

- A. angel
- B. angle
- C. lange
- D. aengl

Given below is a short passage with blanks. Each blank has a question number. The answers to the blanks are listed below. Read the passage carefully and choose the correct answer for each blank. One of them (Q 24A) is done for you as an example.

The New Delhi Railway Station platform (24A) with people and luggage as (25) Grand Trunk Express stood ready to leave for Chennai.

Neela (26) the six berth cabin of the reserved three-tier sleeper coach (27) she was going to travel with her mother to Chennai. "Gosh! Once again (28) got the top berth. I hope Shamba Iyer, in whose name the lower one is reserved, will agree to exchange his with mine," she said to her mother (29).

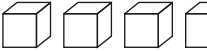

The mother turned around and said smilingly, "I'm sure that Shamba Iyer is a courteous young man, (30) relax till he comes."

- 24A**
- A. are crowded
 - B. was being crowded
 - C. was crowded
 - D. is crowded

Here the correct choice is **C. was crowded** (...platform was crowded....)

Now in the same way choose the correct words to fill in the blanks 25 to 30.

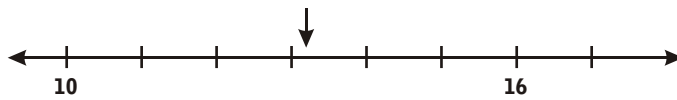
<p>25</p> <ul style="list-style-type: none">A. aB. anC. theD. X (no article)	<p>26</p> <ul style="list-style-type: none">A. surveyingB. surveyC. surveysD. surveyed	<p>27</p> <ul style="list-style-type: none">A. or whichB. of whichC. in whichD. as which
<p>28</p> <ul style="list-style-type: none">A. I'veB. I'dC. I'mD. I'll	<p>29</p> <ul style="list-style-type: none">A. sweetlyB. irritablyC. stupidlyD. calmly	<p>30</p> <ul style="list-style-type: none">A. andB. butC. sinceD. so

31 If  = ,

then how many  will be equal to six ?

- A. four
- B. six
- C. eight
- D. nine

32 The numbers 0, 1, 2, 3, are called whole numbers.



Which whole number is closest to the number shown by the pointer?

- A. 10
- B. 12
- C. 13
- D. 14

33 $\frac{\square}{21}$ is a fraction in its lowest form. The value of \square can be

- A. 6
- B. 7
- C. 14
- D. 16

34 The maximum and minimum temperatures recorded in 4 cities on a given day are below:

	Maximum Temperature (°C)	Minimum Temperature (°C)
Chennai	31.0	20.0
Kolkata	28.5	16.5
Mumbai	32.1	23.5
New Delhi	19.2	8.0

Which of the following is MOST LIKELY TO HAVE BEEN the temperature at 12:30pm in Kolkata that day?

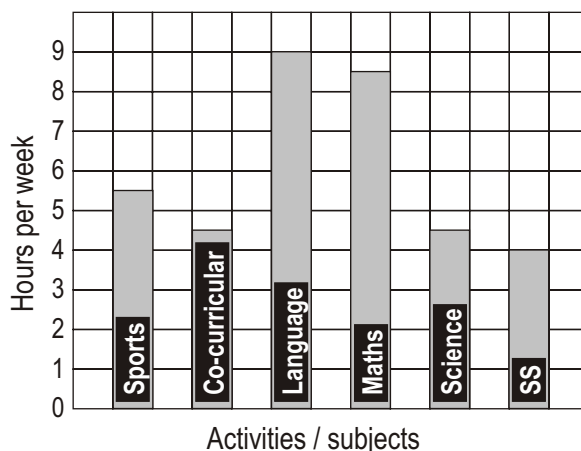
- A. 16.5° C
- B. 17° C
- C. 26.5° C
- D. 31° C

USE THIS PAGE FOR
ROUGH WORK

- 35 $\Delta = 17 \times 153$ and
 $0 = 17 \times 155$
 By how much is 0 greater than Δ ?
- A. 2
 B. 17
 C. 34
 D. 308

- 36 How many tenths make $\frac{3}{5}$?
- A. 3
 B. 5
 C. 6
 D. 10

- 37 Question 37 is based on the graph showing the number of hours middle school students of Chetana School spend on different activities and subjects (excluding breaks, etc.). There is no other activity or subject other than the ones shown.



- What is the total number of hours the students spend per week on all activities and subjects (excluding breaks, etc.) in Chetana School?
- A. 9
 B. 32
 C. 36
 D. 38

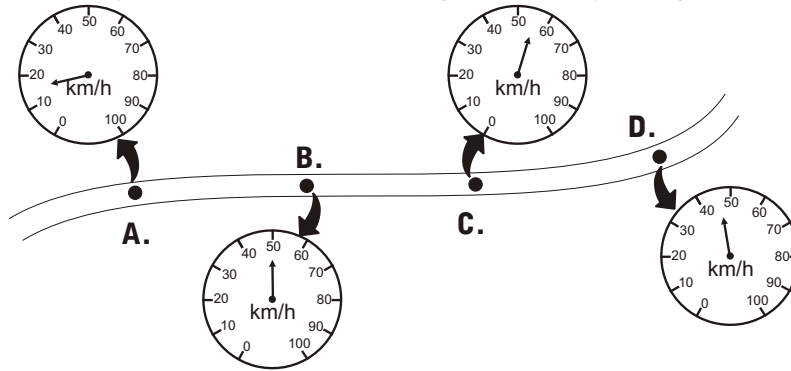
- 38 Rahul's electricity bill was due on April 7, but he will be paying it only today - April 11, 2003.

ELECTRICITY BILL				
Meter No	Name and Address	Meter Reading Date	Bill Date	Last Date For Payment
123546	Rahul Das 24, Raman Nagar Gandhi Road New City	20-3-2003	22-3-2003	7-4-2003
Old Reading	New Reading	Units Used	Amount	
72941	77423	4482	20169.00	
Amount Payable Before Last Date		Amount Payable after Last Date*		
20,169.00		20,219.00		

* Includes Fine for Late Payment Rs. 50/-

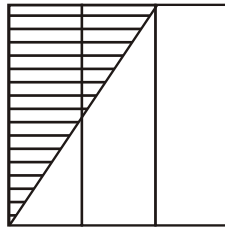
- What is the total amount that he will have to pay?
- A. Rs. 50
 B. Rs. 20,169
 C. Rs. 20,219
 D. Rs. 72,941

39 The speedometer reading of a car at four different points of its journey are shown below:



At which of these points was the car travelling the fastest?

40 Look carefully at the figure shown here:



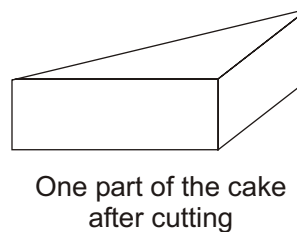
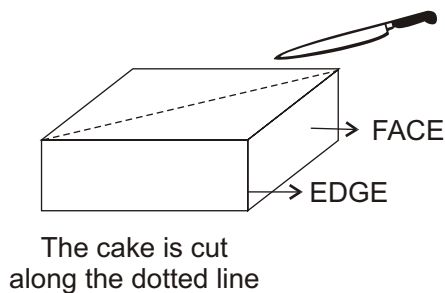
What fraction of the square is shaded?

- A. $\frac{1}{2} \times \frac{2}{3}$
- B. $\frac{1}{2} \times \frac{1}{3}$
- C. $\frac{1}{2} \times \frac{1}{2}$
- D. $\frac{1}{3} \times \frac{1}{3}$

41 How much more is 1 than 0.06?

- A. 0.4
- B. 0.04
- C. 0.05
- D. 0.94

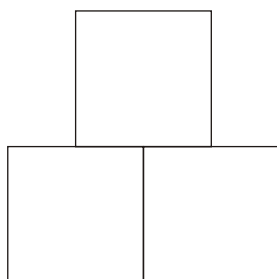
42 A cake is cut into two equal parts by slicing it along the dotted line:



How many faces and edges will EACH part have?

- A. 5 faces, 9 edges
- B. 3 faces, 6 edges
- C. 3 faces, 8 edges
- D. 5 faces, 8 edges

- 43 The shape below is made of small squares of area 1 sq. cm each. What is the area of the whole shape?



- A. 2.5 sq. cm
- B. 3 sq. cm
- C. 3.5 sq. cm
- D. 9 sq. cm

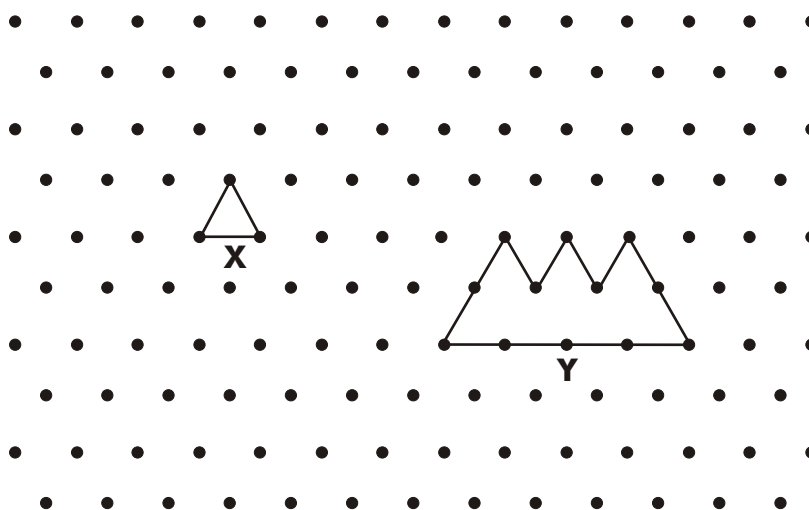
- 44 Which of the following is equal to $1780 \div 800$?

- A. $170 \div 8$
- B. $178 \div 8$
- C. $178 \div 80$
- D. $1780 \div 80$

- 45 With how many zeroes will the product $6 \times 500 \times 20 \times 5$ end?

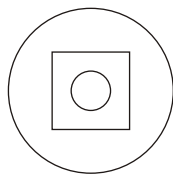
- A. 6
- B. 5
- C. 4
- D. 3

- 46 Two shapes are shown on the dot grid. If the perimeter of shape X is 3 units, what is the perimeter of shape Y?

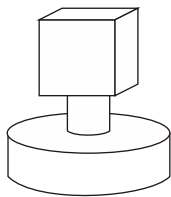


- A. 10 units
- B. 12 units
- C. 30 units
- D. 36 units

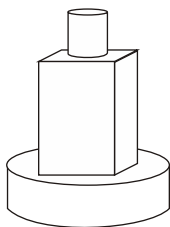
47 Three solids, when arranged one on top of the other, look like this when seen directly from above:



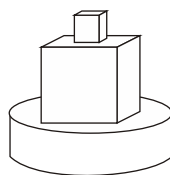
Which of the following could be the arrangement?



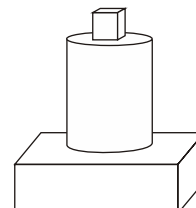
A.



B.

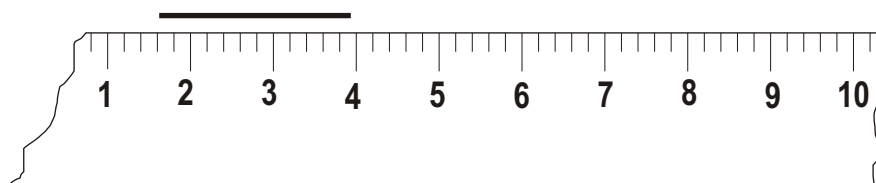


C.



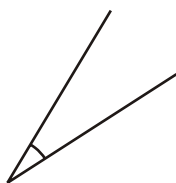
D.

48 What is the length of the line shown next to the ruler?



- A. 2.4 units
- B. 3 units
- C. 3.4 units
- D. 3.6 units

49 Which angle has the greatest degree measure?



A.



B.



C.



D.

50 The length of a candle after TWO THIRDS OF IT HAS BURNT OUT is shown below:

What was the length of the candle originally?

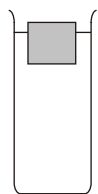
- A. 4 cm
- B. 9 cm
- C. 12 cm
- D. 18 cm



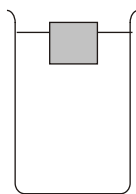
51 Identify the kind of soil that is made of decayed leaves, twigs, dead insects and animals.

- A. clay
- B. top soil
- C. sand
- D. humus

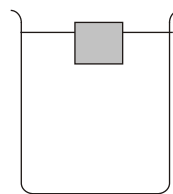
52 Three beakers of different sizes are filled with water to the same height. The temperature of water is the same in all the beakers. If a cube of ice is added to each of the four beakers, which one will have the lowest temperature after the ice melts?



A.



B.



C.

All will be
at the same
temperature

D.

53 Shown in the picture is an example of a seed that gets dispersed through water. Identify the statement that is true about such seeds.



- A. They dry up so that they can explode and be carried away to far off places.
- B. They are dry and have thorns and spikes on them.
- C. They are dry, light and fluffy with either wings or hairs on them so that they can be carried away.
- D. They are light and have coverings that don't get soaked in water.

54 Which of these suggests that oil and water do not mix?

- A. Oil is used for frying while water is not.
- B. Oil burns while water does not.
- C. Oil is sticky and black, while water is clear and wet.
- D. Oil floats in a separate layer on top of water.

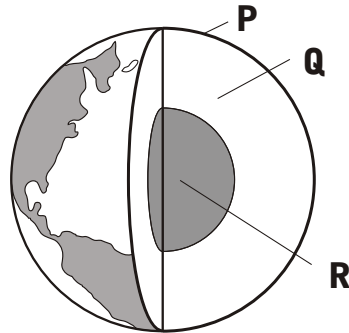
55 Some animals hibernate during winter in order to fight low temperatures and non-availability of food. Identify another climatic adaptation found among animals.

- A. migration (moving to other places)
- B. reproduction (giving birth to young ones)
- C. extinction (dying away)
- D. camouflaging (blending with the environment)

56 Communicating with the world and people in far-off places has become easy due to advances in technology. Identify the correct sequence below from the early tools to the latest:

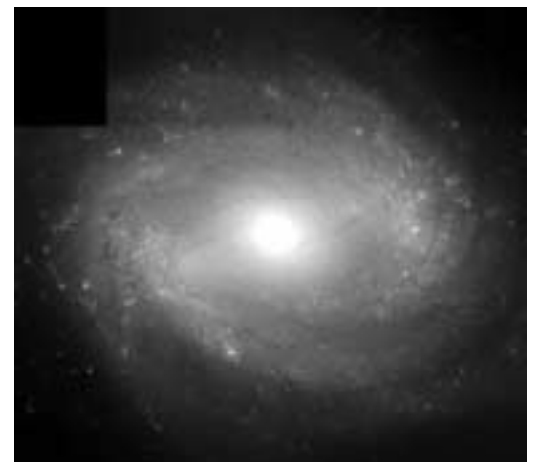
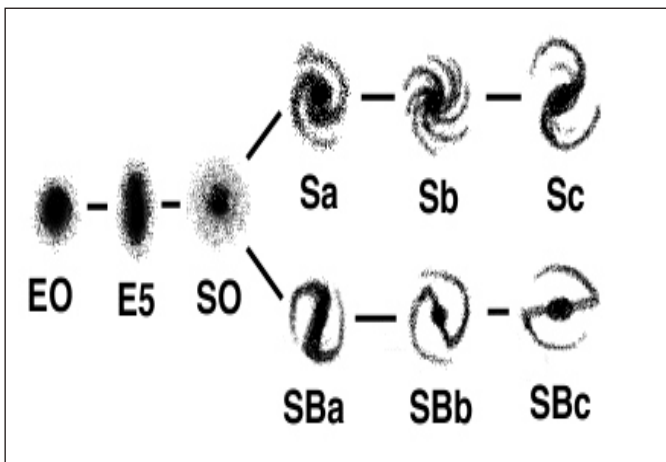
- A. telegraph, postal system, telephone, internet.
- B. postal system, telegraph, internet, telephone.
- C. postal system, telegraph, telephone, internet.
- D. telephone, postal system, telegraph, internet.

57 See this figure showing three different parts P, Q and R of the earth. Arrange the three regions in the order of HOTTEST to COLDEST.



- A. P-Q-R
- B. R-Q-P
- C. P-R-Q
- D. Q-P-R

58 Galaxies have been classified by Edwin Hubble as shown on the figure on the left.



Identify to which classification the galaxy shown above belongs.

- A. S0
- B. SBa
- C. SBc
- D. Sc

59 The raw materials used by plants in order to prepare their food are _____.

- A. Oxygen and Carbon dioxide
- B. Carbon dioxide and Water
- C. Water and Oxygen
- D. Water and Sunlight

60

Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec
	1.5		0.5	0.8	9.7				4.6		0.5

The table gives the average monthly rainfall in Allahabad for 129 years. However the data for a few months was not available in the table but was made available in a jumbled form as given below.

Month 1: 30
Month 4: 29.4

Month 2: 0.8
Month 5: 1.8

Month 3: 0.8
Month 6: 17.5

Ram was asked to calculate the average total rainfall of the months July, August and September. Which of these could be the rainfall for those months?

- A. Rainfall of months 1, 2 and 3
- B. Rainfall of months 1, 4 and 6
- C. Rainfall of months 3, 4 and 5
- D. Rainfall of months 2, 5 and 6

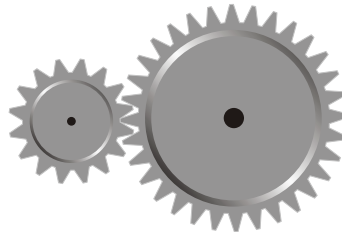
61 A measuring cylinder can be used to measure the volume of a stone. This can be done in the six steps given below. These are not put in the correct order.

1. Lower the stone with the help of a thread slowly into the cylinder.
2. Calculate the difference in the two readings.
3. Read the scale.
4. Fill the cylinder with water to the required level.
5. Take the new reading.
6. Make sure the stone is fully submerged and water does not overflow.

What is the correct order of these steps to measure the volume of the stone?

- A. 4, 3, 1, 6, 5, 2
- B. 1, 6, 3, 4, 2, 5
- C. 5, 1, 2, 4, 3, 6
- D. 3, 4, 5, 2, 1, 6

62 The diagram below shows two toothed wheels of different sizes. Such wheels are called GEARS. Which of the following statements is true?



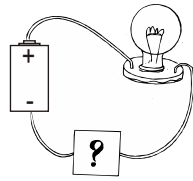
- A. The number of 'teeth' in both the gears is the same.
- B. The smaller gear turns faster than the bigger gear.
- C. The gears rotate in the same direction.
- D. It is possible for only one of the gears to be turning.

63 Which of the following is/are NOT PRESENT in a new-born child?

- A. Nails
- B. Teeth
- C. Eyes
- D. Tongue

64 In the simple electric circuit shown, the light will glow when ? in the picture corresponds to

- A. copper
- B. rubber
- C. cork
- D. plastic



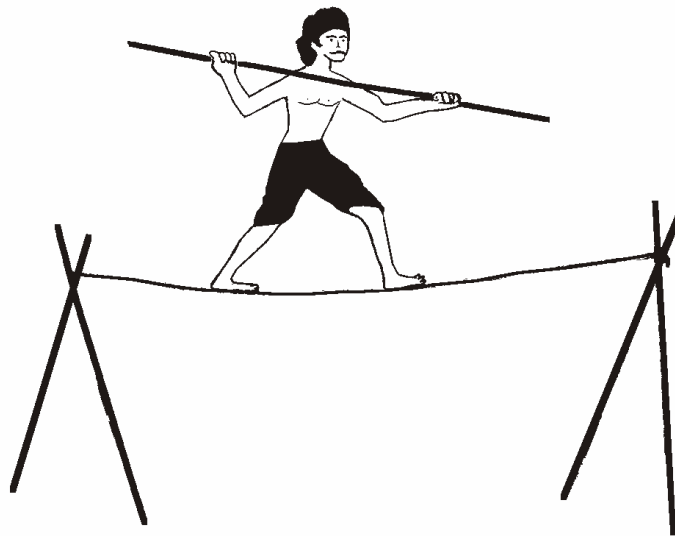
65 The type of pollution that increases sharply during Diwali each year in the big cities and has a serious effect on people's health is

- A. air pollution
- B. sound pollution
- C. water pollution
- D. all of the above

66 Which of these objects is likely to float on water?

- A. a nail
- B. a tight ball made of aluminum foil
- C. a cup made of aluminum foil
- D. a mobile phone

67 Does holding a long horizontal stick make it easier for a tight rope walker to maintain balance?

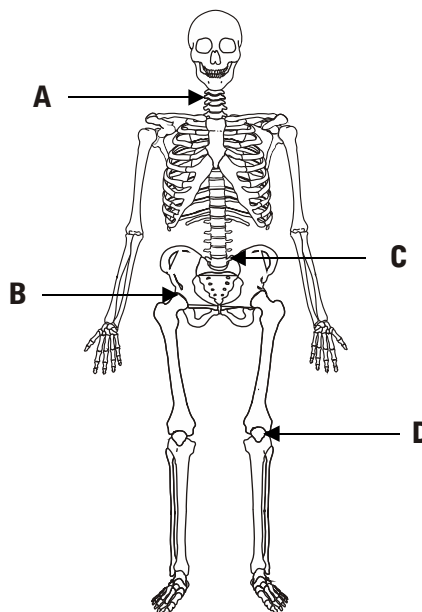


- A. No, it is purely psychological.
- B. Yes, the stick's weight places the walker firmly on the rope.
- C. No, if he falls, the stick can be used for support.
- D. Yes, slight adjustments in the way he holds the stick can help the walker retain balance.

68 When a seed is planted in the soil, which of these shows the correct order of appearance of other parts?

- A. stem - fruits - leaves - flowers
- B. stem - flowers - fruits - leaves
- C. leaves - stem - flowers - fruits
- D. stem - leaves - flowers - fruits

- 69 The figure of the human skeleton is given. Which arrow points to the hip joint?



- 70 Natural resources are of two types - renewable and non-renewable. Which one of the following is a renewable natural resource?
- A. Natural gas
 - B. Coal
 - C. Petroleum
 - D. Trees

FEEDBACK QUESTIONS

- 71 Which subject do you like the **MOST**?
- A. English
 - B. Maths
 - C. Science / EVS
 - D. Another subject
- 72 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
- 73 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
- 74 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.
- 75 Do you have a computer at home?
- A. Yes
 - B. No

Given below are two topics. Attempt **ANY ONE** of them.

Write a short description of what happened in about 8-10 lines. Your description must include the following points :

- the place of the accident
- the people involved in the accident
- how the accident took place
- what steps were taken to help the people involved in the accident

Imagine you witnessed the accident in this picture.



OR

Aryan received a telephone call from his sister Eisha one evening. Since he was going out to play with his friend, he decided to leave his sister's message for his mother. Read the telephone conversation below, and help him write the message in not more than 45-50 words in the box provided on the adjacent page.

Eisha: Hello Aryan. This is Eisha speaking

Aryan: Oh hi!

Eisha: May I speak to Ma?

Aryan: She has gone out.

Eisha: Okay. Will you tell her that my friend Lekha has undergone an emergency operation on her Appendix this afternoon? Some of us are going to visit her at the hospital after college. I will be back late, probably by 7.00 p.m. Please tell her not to worry because Nita and I will be returning home together.

Aryan: Okay, I will tell her. Bye then!

Eisha: Bye Aryan and Thanks.

Blank page with horizontal dotted lines for writing.

THIS PAGE HAS NO QUESTIONS

THIS PAGE HAS NO QUESTIONS

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

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.

