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7

# ASSET SAMPLE QUESTIONS

ENGLISH | SCIENCE | MATHS



## ENGLISH

- "On my word of honour , I will return to your prison as soon as the harvest is gathered."What does " word of honour " in the above line refer to?**
  - a mark of respect to the king
  - a compliment to praise the king
  - a reminder of a promise made earlier
  - a promise which is made to earn trust
- Which of the following is CLOSEST in meaning to the phrase " testament to " as used in the story?**
  - method to
  - quality of
  - cause to
  - proof of
- Which of the following sentences is written correctly?**
  - My parents found the school full of road traffic when they arrived to pick me up.
  - My parents arrived to pick me up from school full of traffic when they found the roads.
  - When they picked me up from school, my parents arrived to find the roads full of traffic.
  - When my parents arrived to pick me up from school, they found the roads full of traffic.
- The babysitter walked in cheerfully to look after the twins as the twins' mother had to go out urgently for an hour. But the mischief created by the twins within that short period irritated her so much that it was enough to \_\_\_\_\_.**

Which expression can BEST COMPLETE the lines above meaningfully.

  - drive a hard bargain
  - drive anyone around
  - drive anyone up the wall
  - drive a coach and horses through
- We should stick to my plan as Anand's plan is tentative and it may change anytime.*What does the word " tentative " mean as used in the sentence?**
  - unnecessary
  - undoubted
  - interfering
  - indefinite
- Which of the following options is correctly punctuated?**

- A. Give me that book I want to read it.
- B Give me that book: I want to read it.
- C. Give me that book. I want to read it.
- D Give me that book - I want to read it.

**7. Which of the following sentences has a grammatical mistake?**

- A. Either Aryan or his sister drives the car these days.
- B. A range of mobile phones was displayed in the shop.
- C. Keerti, not Priya, loves going to the Italian restaurant.
- D. A big packet of chips were ordered for the birthday party.

**8. Choose the word that REFLECTS Tanya's FEELINGS in the context of the sentence below. *Tanya was very\_\_\_\_\_ her late grandmother. Her lips quivered when she spoke about her as she missed her a lot.***

- A. pleasant to            B. scared of            C. attached to            D. worried about

**Read the following passage carefully and answer the questions that follow.**

**Beautiful Camouflage**

It stands before me in the glowing dusk like a sentinel of nature, tall and proud like a tribal woman. I have grown to love it - this beautiful tree in my garden. Initially, there was not a single leaf to clothe its nakedness, and the inquisitive rays of the setting sun pierced and exposed its every limb. But spring was not far behind. The world burst into colour. The seeds we had sown in the flowerbeds erupted into tiny leaves. From next door we heard the cry of a newborn calf and watched it jumping playfully but unsteadily among the haystacks. And my tree? Millions of pale green shoots sprouted on every branch. What joy it was watching them unfurl! It was like the first uncurling of a baby's fist - the same soft, delicate and vulnerable interior. The leaves soon were as big as my palm. The flowers fell one evening after an aggressive gust of wind. I hadn't realized that there were flowers until I found masses on the ground, all coloured a cool lime green. I walked barefoot on the carpet and my soles melted unto the flowers. Soon the leaves assumed a deeper hue. Before long they began falling and I discovered the hidden fruits behind them, globes of russet-coloured fruit, as big as table tennis balls and as decorative as miniature pomegranates. I was curious about them and asked a botanist about their identity. Nux Vomica, I was told; strychnine is extracted from

the seeds. Was I a little disappointed that my tree held poison? Maybe, but the balance had to be struck somewhere and there couldn't have been a more beautiful example.

**9. Which of the following words is indicative of poison?**

- A. Strychnine    B. russet    C. Nux Vomica    D. hue

**10. The tone throughout the article is one of**

- A. innocence    B. disappointment    C. protection    D. wonder

**11. Which of the following questions can be answered using the information from this passage?**

- A. How tall is the tree named Nux Vomica?  
B. How long does the tree take to flower and bear fruit?  
C. What is the cause of the writer's disappointment?  
D. What is the writer's explanation for the balance in nature?

**Read the following passage carefully and answer the questions that follow.**

### **Five-Inch Knife Found in Man**

Hospital staff treating a retired school teacher for a headache found a five inch knife blade wedged in his head after doctors X-rayed Leonard Woronowicz to see if he had cracked his skull in a fall while climbing over a stool in his kitchen, four days earlier. The blade had penetrated the 61-year-old's head just below his right ear and had snapped off at the handle without touching any major blood vessels or nerves - or causing any lasting damage.

He said: "Some tools and other gadgets were scattered on the kitchen floor where I had been working when I tripped.

The blade from the kitchen knife must have pierced my head then. My head hurt a bit, but I was convinced that it was from the fall. There was a small gash on the side of my head near my ear, but I did not make much of it. I put a plaster on it and left it."

He added: "I didn't even guess what had happened when the next day I wanted to cut a piece of bread, I couldn't find the kitchen knife. Despite carefully searching the room I could only find the handle. But I forgot about it as my headaches got worse over the next few days, and I decided to go to a hospital."

Local doctors were bewildered at the sight of the X-ray pictures and had immediately rushed the patient to the Biaystok regional centre hospital in Northern

Poland, where surgeons pulled the five inch blade out of his skull in an operation that took just a few minutes. The blade had gone into his head from the side near his right ear.

Dr Marek Rogowski from the Biaystok hospital said a surgeon could not have made a better job of placing the knife so that it missed all vital bones, nerves and blood vessels. He said: "We have found objects in patients' bodies before, but this is unprecedented."

**12. Which of these BEST describes the nature of this passage?**

- A. presentation of an incredible incident      B. description of a medical breakthrough  
C. resolution of an unsolved mystery      D. report about an amazing individual

**13. Why did Mr. Leonard not bother too much about the missing kitchen knife?**

- A. He had not even realised that it was missing.  
B. He had found the handle which was more important.  
C. He was too preoccupied with his headache to notice.  
D. He was used to losing things and finding them later.

**14. Dr Marek Rogowski's statement that a surgeon could not have done a better job of placing the knife so that it missed all vital bones, nerves and blood vessels means that**

- A. Mr. Leonard had been incredibly lucky in this case.  
B. the operation was expected to be a dangerous one.  
C. the blade was almost missed in the x-ray image.  
D. this was the first such occurrence in his experience.

**15. What does 'this' in the last sentence of the passage refer to?  
("We have found objects in ..... unprecedented.")**

- A. patient      B. object      C. time      D. incident

### **PHYSICS**

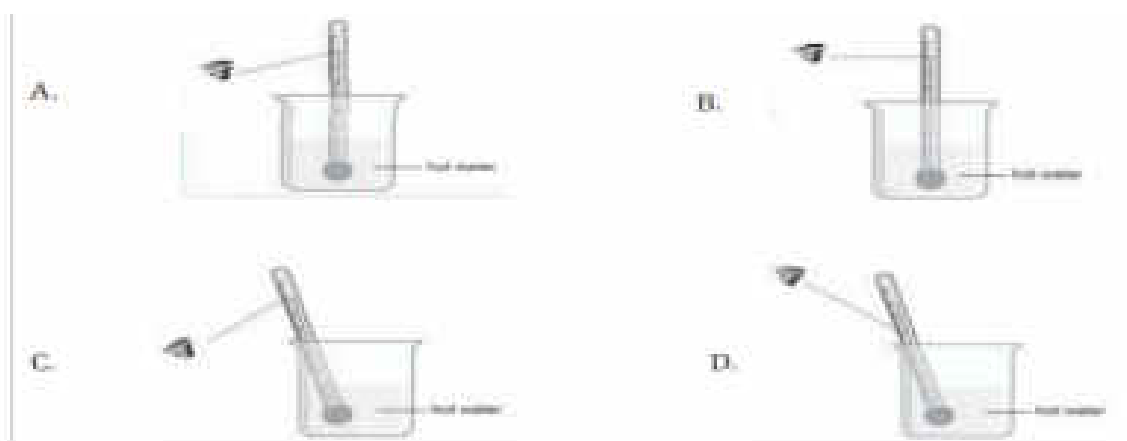
1. Reema pours hot water into two types of cups. One cup is made of ceramic and the other is paper. She records the temperature of water in the cups after 5 minutes.

	Temperature of the hot water	Temperature of water in the cup after 5 minutes
Ceramic cup	90°C	75°C
Paper cup	90°C	60°C

What is Reema testing?

- Is paper a bad conductor of heat?
- Does the shape of a cup prevent loss of heat?
- Does the color of a cup prevent loss of heat?
- Is paper a better conductor of heat than ceramic?

2. Which figure shows the correct way of reading the temperature on a thermometer?



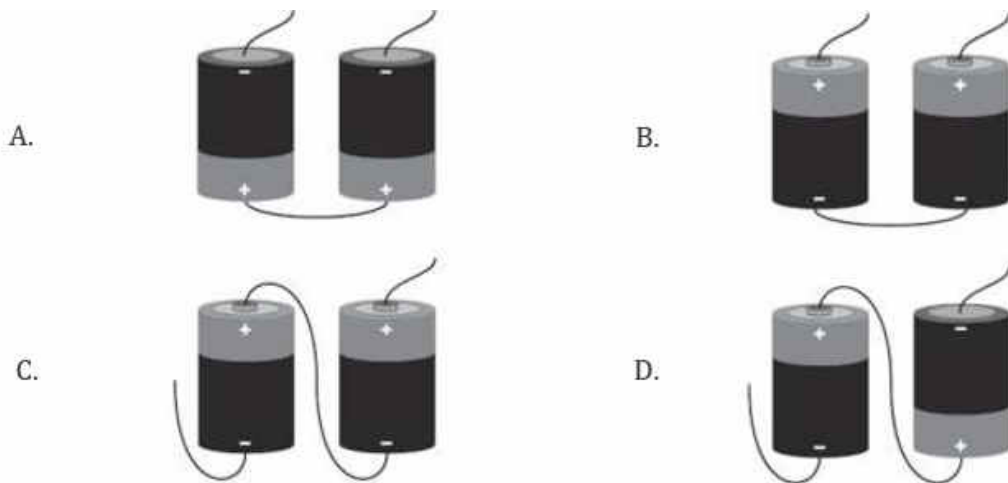
3. Fatima keeps four boxes containing equal sized butter cube under the sun. The boxes are of the same shape and size but made of different materials. Fatima notes how long the butter cubes in each box take to melt.

Box	Time the butter cubes take to melt
Box 1	12 minutes
Box 2	16 minutes
Box 3	7 minutes
Box 4	8 minutes

Which box is the best conductor of heat?

- a) Box 1                      b) Box 2                      c) Box 3                      d) Box 4

4. Which of these is the correct arrangement of electric cells in a battery?



5. The table shows the distance travelled by a car in half an Hour.

	0 - 10 mins	10 - 20 mins	20 - 30 mins
Distance travelled by the car	62 cm	58 cm	60 cm

What can be concluded about the car from the table?

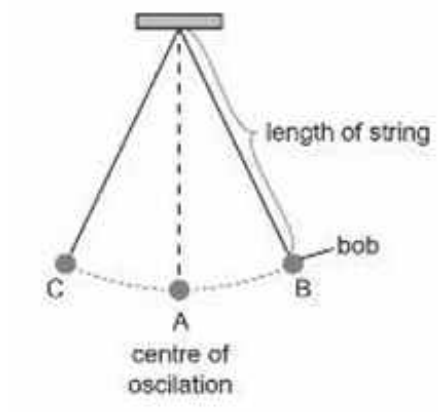
- a) It stopped moving after 30 minutes.  
b) It had a uniform motion throughout the journey.  
c) It travelled with increasing speed throughout the journey.  
d) It travelled at the highest speed between 10 and 20 minutes.

6. Which of these actions is an example of circular motion?

- a) A child riding a see-saw  
b) A child pumping air in a tyre

- c) A player bowling a cricket ball
- d) A player serving a tennis ball with racket

7. The diagram shows a pendulum in periodic motion. The time period of a pendulum is the time taken by the bob to make one complete oscillation. What would be the movement of the bob for one complete oscillation of the Pendulum?

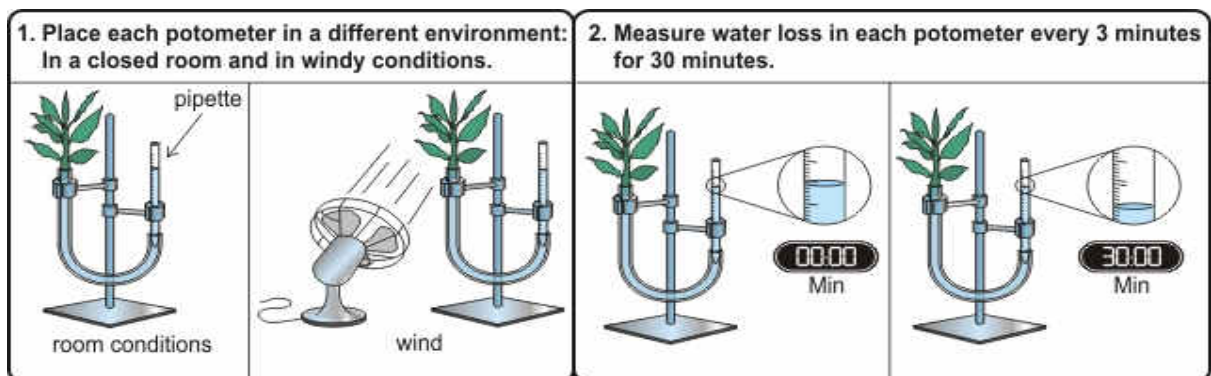


- a) C to B
- b) C to A
- c) B to C to A
- d) B to C to B

### BIOLOGY

1. A potometer is made using a glass U-tube, filled with water and mounted on a stand. In one end of the U-tube, a shoot of a plant is placed and in the other end, a pipette is placed which can be used to measure the decrease in water level. The diagram below shows the potometer being used in an experiment. Both the potometers are placed in well-lit rooms.

All the other conditions except for the conditions mentioned are the same for both potometers.



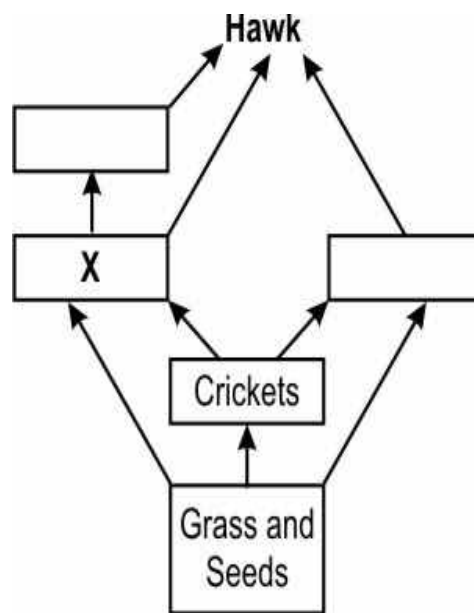


For which of these purposes is a potometer likely to be used?

1. To measure the rate of transpiration
2. To measure the rate of photosynthesis
3. To estimate how long a plant can survive without roots
4. To estimate the growth of plants under different conditions.

2. Shown below are a few food chains. Also given is a food web showing the interdependence of those organisms. Study them and answer the following question.

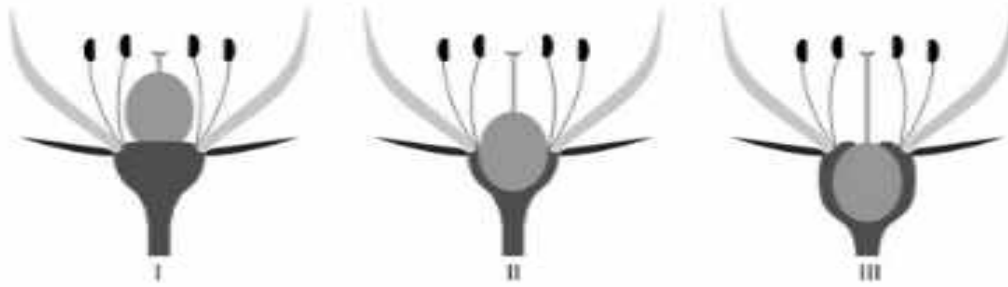
• Crickets eat grass	• Small birds eat seeds and crickets
• Mice eat seeds and crickets	• Snakes eat mice
• Hawks eat snakes, mice and small birds	



Which of the following does X represent in the food web?

- A. Birds
- B. Mice
- C. Snakes
- D. Either birds or mice

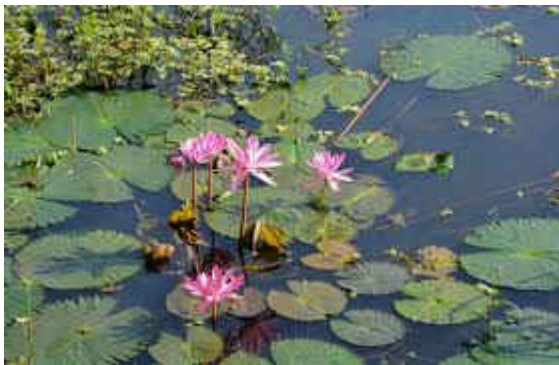
3. The diagrams below show flowers classified into three groups based upon the positions of their parts with respect to each other.



Which of the following parts is used to classify these flowers?

- A petals with respect to sepals
- B ovary with respect to petal
- C anthers with respect to sepals
- D stigma with respect to anthers

4. *Nelumbo nucifera* is an aquatic plant



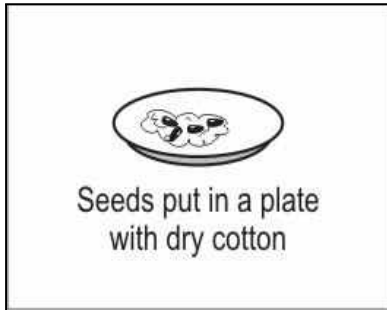
Which of the following characteristics of this plant is an adaptation to its aquatic habitat?

- A. It has round leaves.
- B. Its roots grow in the soil.
- C. It has a waxy layer on its leaves
- D. Its flowers grow above its leaves

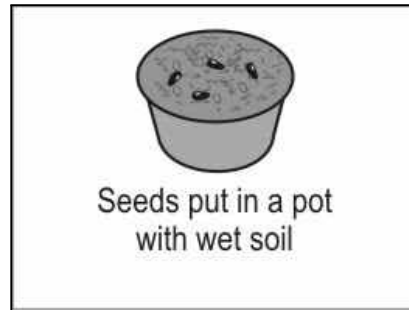
5. An earthworm and snake are moving on the ground/ Which of the following is done by ONLY ONE of them as it moves?

- A. Changing the length of its body
- B. Changing the shape of its body.
- C. Pushing the ground.
- D. Using its muscles

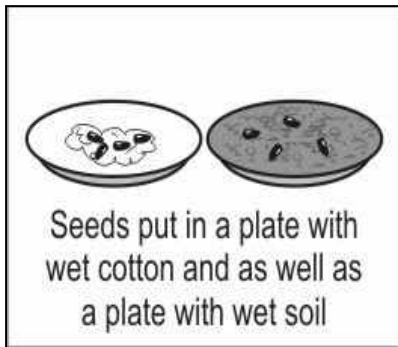
6. Which of the following lets us check if seeds need soil to germinate or not?



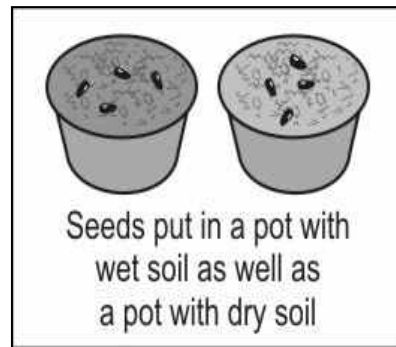
A



B



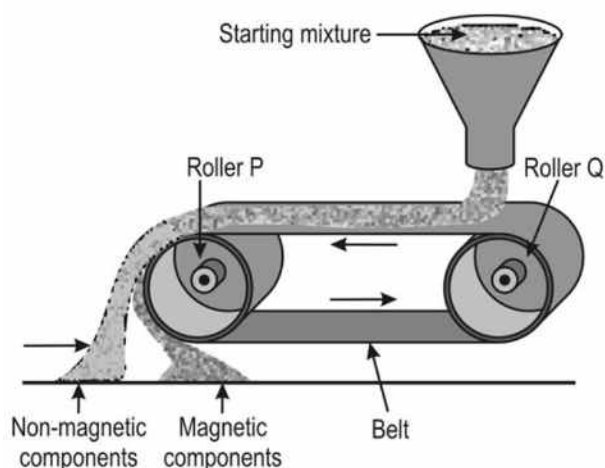
C



D

## CHEMISTRY

1. A magnetic separator, shown below, separates magnetic and non-magnetic components from a mixture when it is switched on.

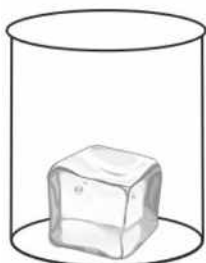


Based on this information, which of the following part/s of the magnetic separator NEED(s) to get magnetised for it to work?

- A** only roller P  
**B** only roller P and the belt  
**C** only roller Q and the belt  
**D** all - roller P, roller Q and the belt
2. A large cube of ice, at 0 C, placed in a large beaker, on melting forms water.

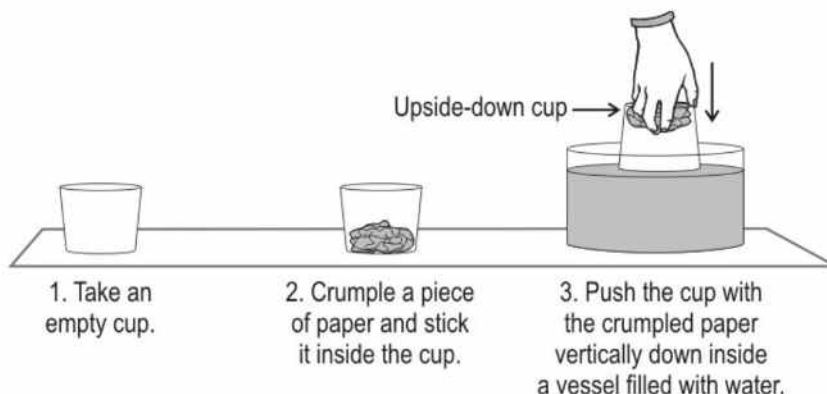
The water in the beaker is cooled in a freezer and forms ice once again at 0 C. In what way is the ice formed at the end of the process different from that at the start?

( Assume no evaporation or condensation takes place. )



- A** its shape  
**B** its weight  
**C** its volume  
**D** all of the above

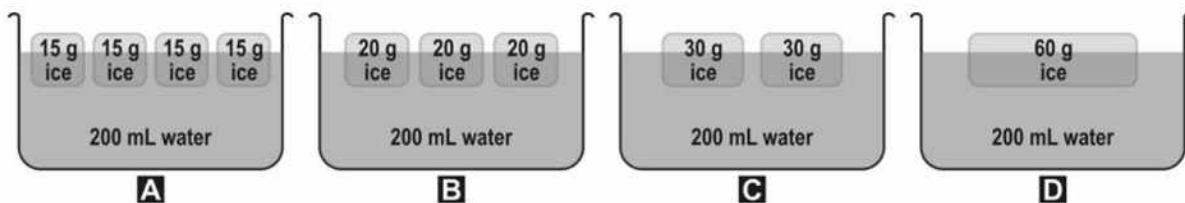
3. Vijay does the following experiment.



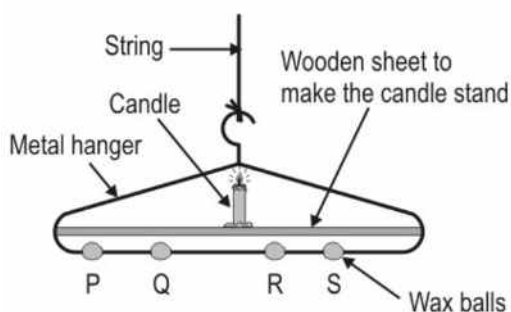
Which of these is he likely to find?

- A** The paper will absorb water and swell inside the cup.
  - B** The paper will get wet because of the water entering into the cup.
  - C** The paper will stay dry as enough water will not be able to enter due to the air in the cup.
  - D** The paper will become heavy on crumpling and hence make the cup sink inside the water.
4. Ice cubes of different sizes and at the same temperature, are placed in identical containers containing 200 mL water at the same temperature, as shown.

In which container is the water likely to cool the QUICKEST?



5. Shown here is a metal hanger that is used to hang clothes. Four wax balls are stuck to it at locations P, Q, R and S as shown.



If a lit candle is kept on the wooden sheet as shown, the wax ball at which location will fall the LAST?

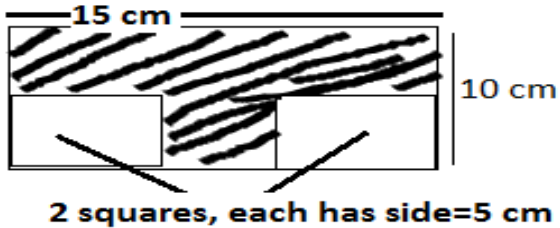
- A** P
- B** Q
- C** R
- D** S

## MATHEMATICS

1) The diameter of a TENNIS BALL would be about.

- |           |           |
|-----------|-----------|
| A. 0.5 mm | B. 5 mm   |
| C. 50 mm  | D. 500 mm |

2) What is the area of the shaded part in the figure shown here?



- |                       |                       |
|-----------------------|-----------------------|
| A. $200 \text{ cm}^2$ | B. $150 \text{ cm}^2$ |
| C. $125 \text{ cm}^2$ | D. $100 \text{ cm}^2$ |

3) 123450 is NOT divisible by:

- |      |       |
|------|-------|
| A. 2 | B. 3  |
| C. 9 | D. 15 |

4) "Mallika and Kishore have the same number of marbles. To have 100 marbles, they must pool their marbles together and then get 30 more." Which equation represents the above relationship?

- |                    |                    |
|--------------------|--------------------|
| A. $60x = 100$     | B. $30x2 = 100$    |
| C. $30 + x2 = 100$ | D. $30 + 2x = 100$ |

5) 72, 81, 90, 99, ..... is a series of numbers following a certain pattern. Which of the following numbers will be in this series?

- |        |        |
|--------|--------|
| A. 336 | B. 409 |
| C. 600 | D. 783 |

6) Mrs. Mishra bought a bottle of tonic like this for her baby daughter.



Every morning Mrs. Mishra gives 2.5 ml of tonic from this bottle to her daughter. How long would the tonic in the bottle last?

- A. about 1 week
- B. about 1 month
- C. about 3 months
- D. about 10 months

7)

The product  $22 \frac{1}{2} \times 10$  lies between \_\_\_\_\_.

- A. 3 and 7
- B. 21 and 25
- C. 218 and 222
- D. 223 and 227

8)

$1^{99}$  is equivalent to ...

answer choices

99

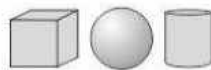
1

0

199

9)

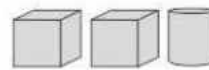
Shown below are three groups made up of different objects. Group 1 is the lightest and Group 3 is the heaviest.



Group 1



Group 2



Group 3

Which of these objects is the **LIGHTEST**?

- A. cube
- B. sphere
- C. cylinder
- D. (cannot say)

10) Which of these equations has 0 as the solution?

A.  $x + 4 = 7 - x$

B.  $7x = 7$

C.  $2x + 3 = x - 3$

D.  $2x + 1 = 1 + 3x$

11)  $3^4 =$

A. 12

B.  $9^2$

C.  $6^2$

D.  $3^3 + 3^1$

12) Anu copied down a simplification question as:

$7 - 8 - 2 + 6 \div 2$

There were some brackets in the question which she missed.

Yet, Anu's answer finally turned out to be correct! Which of the following could have been the correct position of the brackets in the question?

A.  $(7 - 8) - (2 + 6) \div 2$

B.  $7 - (8 - 2) + (6 \div 2)$

C.  $7 - 8 - (2 + 6) \div 2$

D.  $(7 - 8) - 2 + (6 \div 2)$

13) The sum of the ages of 5 children is 20 years. After how many years will the sum of their ages be 40 years?

A. 4

B. 5

C. 10

D. 20

14) Tina called her friends Shama, Jenny, Roma and Aashka over to her house to play. They all arrived at Tina's house at different times. Shama arrived 5 minutes after Jenny but 10 minutes before Aashka. Roma and Tina were playing chess when Jenny arrived. In what order did they arrive at Tina's house?

A. Roma, Jenny, Shama, Aashka

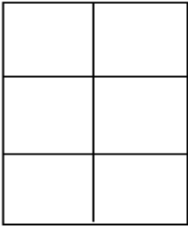
B. Jenny, Roma, Shama, Aashka

C. Roma, Shama, Jenny, Aashka

D. Jenny, Shama, Aashka, Roma



15) How many RECTANGLES are there in the figure shown below which are NOT SQUARES?



- A. 0
- B. 7
- C. 9
- D. 10

16) 72, 81, 90, 99, ..... is a series of numbers following a certain pattern. Which of the following numbers will be in this series?

- A. 336
- B. 409
- C. 600
- D. 783

17)

. What is  $\frac{1}{4}$  times  $\frac{3}{6}$  in simplest form

answer choices

- $\frac{1}{8}$
- $\frac{3}{24}$
- $\frac{4}{10}$
- 1

18)

The school band sold 150 tickets to their concert. If 90 of the tickets were adult tickets, what percent of the tickets sold were adult tickets?

answer choices

- 30%
- 40%
- 50%
- 60%

19)

What is the solution to the equation

$$4t - 20 = 16?$$

answer choices

▶ 36

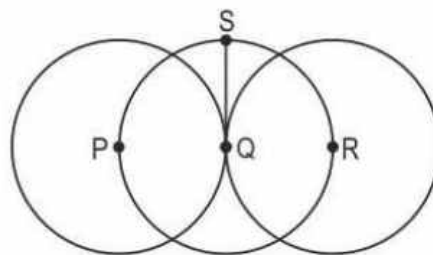
9

▶ -4

-1

20)

The figure below has three circles with centres P, Q and R respectively.



If  $PR = 8$  cm, what is the length of  $QS$ ?

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