

# SMART CHALLENGERS

## SMART CHALLENGERS' QUESTIONS – SEPTEMBER 2023

1.: Which set of sentences uses commas correctly? Tick (✓) one correct answer.

A	Stars in the Kitchen our bestselling charity cookbook, is now available to buy online. To get your copy, simply visit our website and pay at the secure checkout.
B	Stars in the Kitchen, our bestselling charity cookbook, is now available to buy online. To get your copy, simply visit our website and pay at the secure checkout.
C	Stars in the Kitchen, our bestselling charity cookbook is now available to buy online. Simply visit our website and pay at the online checkout quickly and securely.
D	Stars in the Kitchen our bestselling charity cookbook is now available to buy online. Simply visit our website and pay at the online checkout, quickly and securely.

2..Read the paragraph carefully and answer the question :

Rats are nocturnal, and out in the night the brown rat’s eyes are small and black and shiny; when a flashlight shines into them in the dark, the eyes of a rat light up like the eyes of a deer. Though it forages\* in darkness, the brown rat has poor eyesight. It makes up for this with, first of all, an excellent sense of smell. . . . They have an excellent sense of taste, detecting the most minute amounts of poison, down to one part per million. A brown rat has strong feet, the two front paws each equipped with four claw like nails, the rear paws even longer and stronger. It can run and climb with squirrel-like agility. It is an excellent swimmer, surviving in rivers and bays, in sewer streams and toilet bowls.

What does the end of paragraph mainly emphasise about rats?

A	their strange diet
B	their physical abilities

C	their preference for dry land
D	their similarity to other mammals
<p><b>3.. Read the passages carefully and identify the text structure.</b></p> <p>Dr. Miller doesn't want the tigers to vanish. These majestic beasts are disappearing at an alarming rate. Dr. Miller thinks that we should write to our congress people. If we let them know that we demand the preservation of this species, maybe we can make a difference. Dr. Miller also thinks that we should donate to Save the Tigers. Our donations will help to support and empower those who are fighting the hardest to preserve the tigers. We owe it to our grandchildren to do something.</p>	
A	The passage is structured as chronological
B	The passage is structured as a compare and contrast
C	The passage is structured as cause and effect
D	The passage is structured as problem and solution
<p><b>4. Read the passages and identify the perspective correctly</b></p> <p>The dew on the grass made my running shoes damp. It didn't bother me. The sound of my feet hitting the street formed a rhythm, a steady pattern of light thumps. I timed my breathing with the rhythm. These sounds filled my head. I thought of nothing other than the next step and keeping my tempo. I soared over the sidewalks like concrete clouds.</p>	
A	first-person
B	second-person
C	third-person
D	none of the above
<p><b>5. . Read the text and answer the following question</b></p> <p><b>Andy Murray's appliance of science</b></p>	

If the Caledonian superman wins Wimbledon this year, it will be thanks to 50 pieces of sushi a day, a magic potion and a battalion of experts.

If you want to know what it is about Andy Murray that makes him stand out from the rest of us – apart from that fizzing backhand return and the huge-mouthed celebratory yodel – it is summed up in two words: osmolarity check.

Today, before he even steps out on to the Centre Court for his Wimbledon semi-final against the huge-hitting Pole Jerzy Janowicz, Murray will have been subject to several of these. He does one every time he pops to the lavatory. The osmolarity check is conducted by one of his staff, its purpose to gauge the percentages of water and minerals in his urine, to show whether his body is correctly hydrated. The fact is, if Murray wins today, it will partly be thanks to the bloke who inspects his wee.

Identify the text type --

A	Extract of story
B	Personal narrative
C	Newspaper report
D	Magazine article

6. Q1. For the list of items, select the choice that best describes that grouping.

for money, for experience, to meet people

A	reasons to date
B	reasons to attend a party
C	reasons to get a part-time job
D	reasons to apply for loans

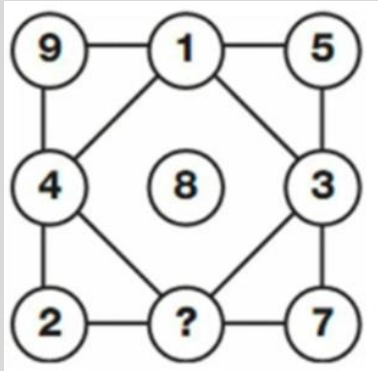
7. 3. After reading the following paragraph, select the choice that best represents the topic of the paragraph.

1. You've probably heard that older men die before older women virtually everywhere in the world. In the United States, women are expected to live an average of 80.4 years, while men live only 75.2 years. Sociologists attribute many factors to this trend. For example, men have higher testosterone levels than women, which may make men more likely to abuse alcohol and tobacco, drive

aggressively, and engage in other life-threatening behaviors. Men also choose riskier types of work and become involved in wartime aggression, which are connected to men’s decreased life expectancy. Studies also show that women are less likely to experience life-threatening illnesses and health problems than men are.

A	a. women’s health
B	b. men and risky behaviours
C	c. testosterone and age
D	d. men’s life expectancy

8. Replace the question mark in the above problem with the appropriate number.

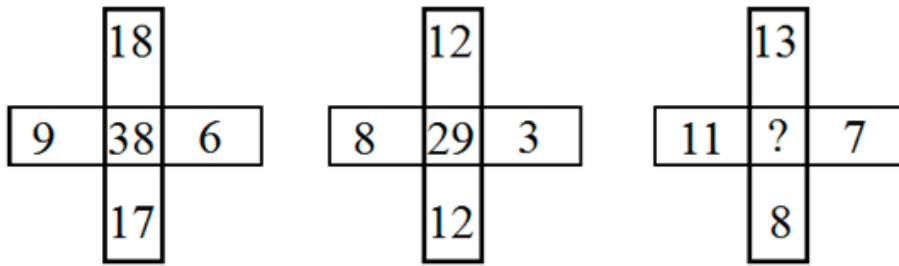


A	4
B	8
C	1
D	6

9. In a row of boys facing North, A is sixteenth from the left end and C is sixteenth from the right end. B, who is fourth to the right of A, is fifth to the left of C in the row. How many boys are there in the row?

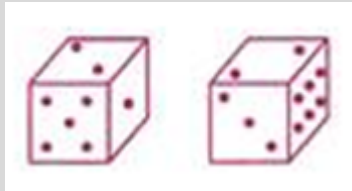
A	39
B	40
C	41
D	42

10. Fill in the question mark



A	0
B	26
C	20
D	25

11. Two positions of a block are given. When 1 is at the top, which number will be at the bottom?



A	6
B	3
C	2
D	4

12. Every morning, Samath has one glass of fruit juice with his breakfast. He chooses at random orange juice or pineapple juice or mango juice. The probability that he chooses orange juice is 0.6. The probability that he chooses pineapple juice is 0.3. Work out the probability that he chooses mango juice.

A	0.3
B	1.0
C	0.1
D	0.9

13. A fence will be built to enclose a 100m X 70m field. It will need a post at each corner and one every 5m. How many posts are needed?

A	68
B	70
C	78
D	100

14. Harmony kept track of her grades in math. She had a 95, 96, 94, and 95.

What will happen to the mean of her grades if her next grade is 100?

A	The mean will increase.
B	The mean will decrease
C	The mean will not change
D	The mean will be added to 100

15. Which of the following molecules is polar?

A	carbon dioxide
B	Silicon tetrachloride
C	ammonia
D	boron trifluoride

16. When green tomatoes turn to red, then

A	new chromoplasts are formed
B	chloroplasts are disintegrated and converted to chromoplasts
C	chromoplasts are converted to chloroplasts
D	none of these

17. A hydrogen balloon floats up because of

A	air pressure decreases with decrease in height
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B	air pressure decreases with decrease in weight
C	weight of the balloon is less than the weight of air displaced by it
D	the pressure inside the balloon is more than the pressure outside it

18. What is the primary factor contributing to the current cost of living crisis in many regions?

A	Decreased demand for goods and services.
B	Surplus of available jobs in the market.
C	Inflation and rising prices of essential goods.
D	Decreased global oil prices

19. Anne is planning to open a hairdressing salon.  
Which of the factors below would be the least important to Anne when deciding where to locate her salon?

A	Competition
B	Customers
C	Staff
D	Supplies

20. "Scientific research has demonstrated that alcohol is a poison." - the name of the group used this as their slogan is:

A	Anti-War League
B	Anti-Discrimination League
C	Anti-Saloon League
D	American Football League

**21. Which emerging technology holds the potential to revolutionize cryptography and solve complex problems much faster than classical computers**

A	Nanotechnology
B	Quantum Computing
C	Biotechnology
D	Robotics