



SMART CHALLENGERS

SMART CHALLENGERS QUESTIONS – OCTOBER 2019

1. Which is an example of hyperbole?	
A	The deck of our boat was as slippery as melted butter!
B	This bag of groceries weighs a ton!
C	Onto each life some rain must fall.
D	Marco's lasagna is better than Mira's
2. What is wrong with the following argument? "We should not change our grading system to numbers instead of letters. The next thing you know, they will take away our names and refer to us by numbers, too!"	
A	The conclusion is too extreme.
B	There is nothing wrong with the argument.
C	Students should not have a say in the type of grading system used in their schools.
D	It does not explain why they want to get rid of letter grades
3. What is wrong with the logic of the following statement? "How can you believe his testimony? He is a convicted felon!"	
A	The fact that the person testifying was convicted of a crime does not mean he is lying.
B	A convicted felon cannot testify in court.
C	The person speaking has a bias against criminals.
D	The person speaking obviously did not attend law school
4. Which is a judgment, not a fact?	
A	That production of Hamlet was first-rate; you'll never see it done better.
B	That production of Hamlet was first-rate; it was cited as such in the Daily News.
C	That production of Hamlet was first-rate; it won an award this year.
D	That production of Hamlet was first-rate; 94% of audience members interviewed after the show agreed.
5. Which is NOT a valid argument?	
A	There are six cans of tomatoes in Carlo's pantry and 14 in his basement. There are no other cans of tomatoes in his house. Therefore, he has 20 cans of tomatoes in his house.

B	Everyone northbound on the Interstate yesterday was late to work. Faith was northbound on the Interstate. Faith was late to work
C	Huang lives in either Kansas City, Kansas, or Kansas City, Missouri. If he lives in Kansas, then he is an American
D	No one who eats in the cafeteria likes the pizza. My boss eats in the cafeteria. Therefore, my boss does not like the pizza

6. The United States has a vast amount of newly discovered clean geothermal (natural heat from the Earth's crust) energy. Tapping into this energy source could provide at least 10 times the energy that can be obtained from the nation's known coal reserves.

Which word in the above paragraph means supplies that are available to be used?

A	geothermal
B	tapping
C	continent
D	reserves

7. In the early 1600s, a dangerous trip across the Atlantic Ocean was a daunting idea. The Europeans, who would someday be known as the Pilgrims, must have been a very determined and brave group of settlers.

A daunting task is one that would _____ someone.

A	tickle
B	amuse
C	lose or misplace
D	frighten or intimidate

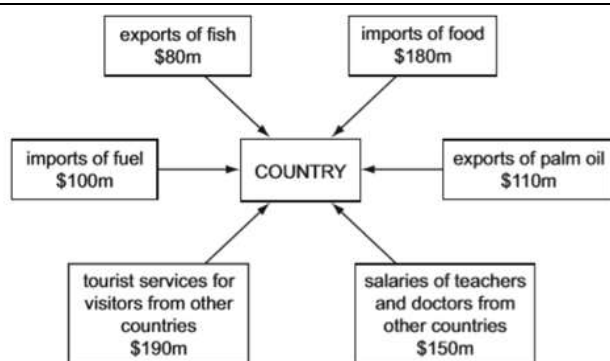
8. In this system of mechanical data processing, the majority of work is performed by man and some assistance is provided by a machine.

A	Manual system
B	Key driven system
C	Punched card system
D	Electronic data processing

9. Outside the nucleus ,DNA is found in

A	Golgi Bodies
B	Ribosome
C	Endoplasmic Reticulum
D	Mitochondria

10. The diagram shows imports and exports of a country.



What is the value of exports for this country

A	\$190m
B	\$340m
C	\$380m
D	\$ 530m

11. The value of the pound has fallen in recent months due to

A	UK's current monetary policy
B	Uncertainty and fears of a looming no deal Brexit
C	A rise in the supply of EU goods

12. A piece of solid A of relative density 1.35 is attached to another solid B of relative density 0.65. If the combined body just floats in water ,the ratio of volumes A to B is

A	1:1
B	1:2
C	2:1
D	1:3
E	3:1

13. What does 1 googol means?

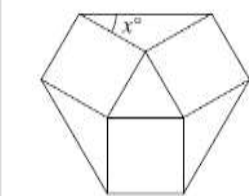
A	1 followed by hundred zeros
B	1 followed by thousand zeros
C	1 followed by ten thousand zeros
D	1 followed by 1 lakh zeros

14. $p, p + 2, p + 4$ are called _____ if all numbers are primes.

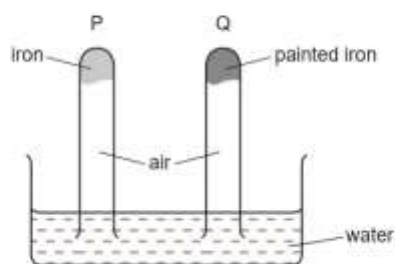
A	Pythagorean Triplet
B	Prime Triplet
C	Lucas number
D	Fermat number

15. Annual income of A is 10% more than of B whereas income of B is 20% more than that of C. If monthly income of C is \$ 2000 then what is the sum of monthly incomes of A, B and C?

A	\$ 6,872
B	\$ 7,046

C	\$ 7,772												
D	\$ 7,040												
16. An equilateral triangle is surrounded by three squares, as shown. What is the value of x?													
													
A	15												
B	18												
C	24												
D	30												
17. Look at the table below and find out the missing value													
	<table><tr><td>1</td><td>2</td><td>3</td></tr><tr><td>4</td><td>5</td><td>6</td></tr><tr><td>7</td><td>8</td><td>9</td></tr><tr><td>27</td><td>38</td><td>?</td></tr></table>	1	2	3	4	5	6	7	8	9	27	38	?
1	2	3											
4	5	6											
7	8	9											
27	38	?											
A	15												
B	33												
C	27												
D	51												
18. Find a five digit number which has no zeros nor ones in it and no digit is repeated, where: The fourth digit is a quarter of the total of all of the digits. The second digit is twice the first digit. The third digit is the largest. The last digit is the sum of the first two digits.													
A	12987												
B	24976												
C	29897												
D	34098												
19. If A is substituted by 4, B by 3, C by 2, D by 4, E by 3, F by 2 and so on, then what will be total of the numerical values of the letters of the word SICK?													
A	11												
B	12												
C	10												
D	9												
20.													

1 The diagram shows an experiment to investigate how paint affects the rusting of iron.



What happens to the water level in tubes P and Q?

	Tube P	Tube Q
A	falls	rises
B	No change	rises
C	rises	falls
D	rises	No change