



SMART CHALLENGERS

SMART CHALLENGERS QUESTIONS – APRIL 2026

Choose the correct options to fill in the blanks.

1. Despite the celebration, she felt a strange sense of _____ as she watched the fireworks light up the sky.

A	deafening silence
B	bitter sweetness
C	living dead
D	open secret

2. The Principal decided to _____ against students who violated the school rules.

A	make strict action
B	do strict action
C	take strict action
D	give strict action

3. Neither the teacher nor the students _____ aware of the change in the exam schedule.

A	is
B	was
C	are
D	has been

4. If the team _____ more carefully, the mistake could have been avoided.

A	prepares
B	prepared
C	had prepared
D	would prepare
5. Identify the grammatically correct sentence:	
A	No sooner had she finished the exam than the bell rang.
B	No sooner she had finished the exam than the bell rang.
C	She had no sooner finished the exam when the bell rang.
D	Had she no sooner finished the exam when the bell rang.
6. The scientist's discovery _____ a major breakthrough in cancer research.	
A	caused
B	led
C	triggered
D	brought
7. Select the correct pair of synonyms to the underlined words.	
The scientist proposed a <u>novel</u> yet <u>plausible</u> explanation.	
A	strange – false
B	risky – dangerous
C	complex – unclear
D	new – believable
8. On a training ride, Laura averages speeds of 12 km/h for 5 minutes, then 15 km/h for 10 minutes and finally 18 km/h for 15 minutes. What was her average speed over the whole ride?	
A	A 13 km/h

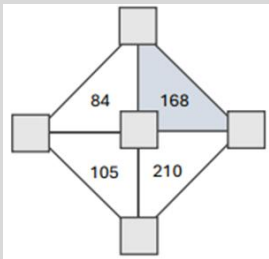
B	14 km/h
C	15 km/h
D	16 km/h
<p>9.) How many of the following four equations has a graph that does not pass through the origin?</p> <p>$y = x^4 + 1$ $y = x^4 + x$ $y = x^4 + x^2$ $y = x^4 + x^2$</p>	
A	0
B	1
C	2
D	3
<p>10. The following twelve integers are written in ascending order: 1, x, x, x, y, y, y, y, y, 8, 9, 11. The mean of these twelve integers is 7. What is the median?</p>	
A	6
B	7
C	7.5
D	8
<p>11. A new bicycle is priced at \$350.00. The store first offers a 20% discount off the original price. After the discount is applied, a 5% sales tax on the discounted price is added. What is the final price a customer must pay for the bicycle?</p>	
A	\$320
B	\$280
C	\$294
D	\$325

12. What is the sum of the next two numbers in the following sequence?

2, 5, 11, 23, 47, 95, ____, ____

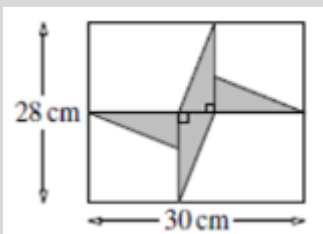
A	574
B	250
C	324
D	452

13. Keisha placed the numbers 3, 4, 5, 6, and 7 into the five squares of the diagram below. She placed them in such a way that the product of the three numbers on the vertices of each triangle has to be equal to the number shown within the triangle. What is the sum of the numbers in the vertices of the triangle with the number 168?



A	20
B	17
C	23
D	18

14. The diagram shows four congruent right angled triangles inside a rectangle. What is the total area of the four triangles?



A	46 sq. cm
B	52sq. cm
C	54 sq.cm

D	56sq.cm
15. Ethyl ethanoate on hydrolysis in acidic medium gives:	
A	Ethanol + Sodium ethanoate
B	Ethanol + Ethanoic acid
C	Ethene + Water
D	Methanol + Ethanoic acid

16. Exposure to ionizing radiation from events like Hiroshima bombing primarily causes mutations by:	
A	Increasing ATP production
B	Breaking DNA strands
C	Enhancing protein synthesis
D	Strengthening cell membranes

17 Bats can find objects in the dark by using echolocation (sending out a high-frequency sound and listening to the echo). They also listen for a change in the pitch of the echo to	
A	confirm the estimated distance of the object
B	determine the velocity of the object
C	determine whether the object is moving toward or away from them
D	estimate the approximate composition of the object

18. The government sets a price below the equilibrium price for rental housing. What is most likely to occur?	
A	A) Excess supply
B	B) Shortage

C	C) Increase in quality automatically
D.	Less demand

19. The currency of Iceland is the krona (ISK). AWG's weekly fixed costs are 440 000 ISK and the variable cost per jumper is 2 500 ISK. Each jumper is sold for 8 000 ISK.

Which one of the following is the weekly break-even point?

A	8
B	55
C	80
D	176

20. On July 20, 1969, Neil Armstrong became the first person in history to do what?

A	Walk on the moon
B	Land on the moon
C	park on the moon
D	fly on the moon

21. Which protocol is used for sending emails?

A	FTP
B	SMTP
C	HTTP
D	SNMP