

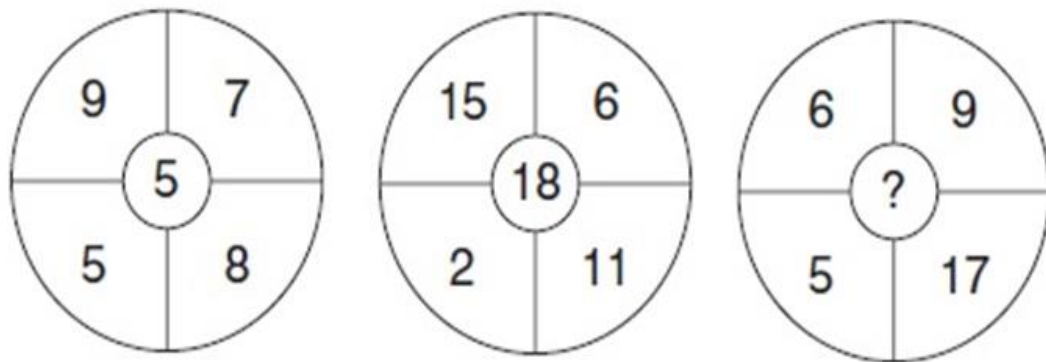


# SMART CHALLENGERS

## SMART CHALLENGERS QUESTIONS – APRIL 2022

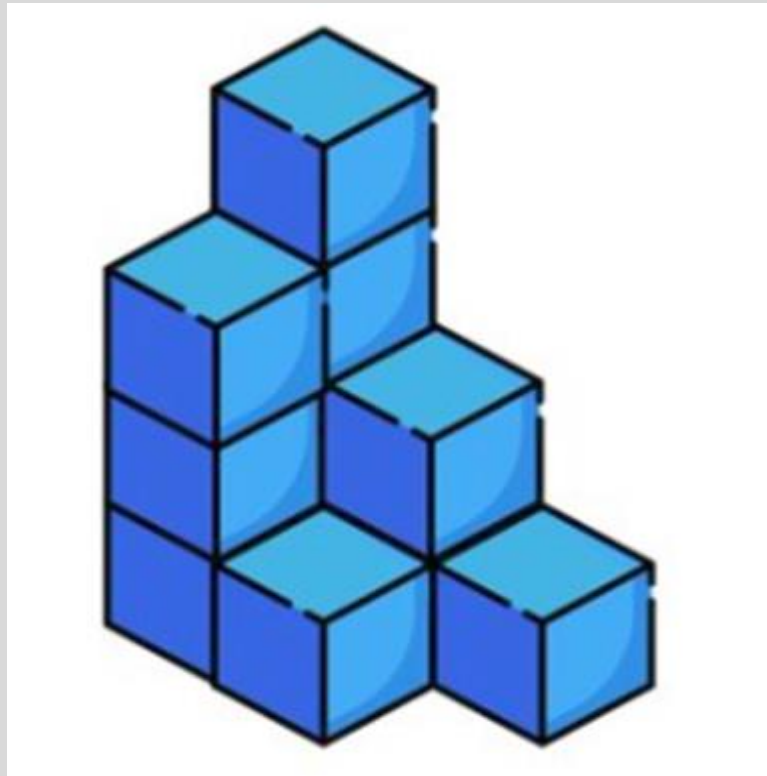
1.

What number should replace the question mark?



A	10
B	9
C	14
D	23

2. How many total blocks are in the diagram below?

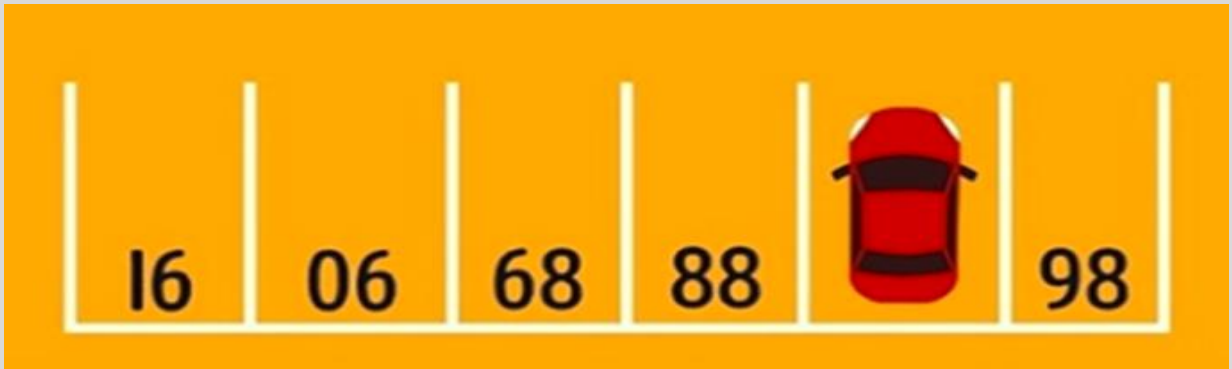


A	8
B	10
C	11
D	13

3. If there are 20 people in a room and they shake every other person's hand once and only once, how many handshakes would take place?

A	180 shake hands
B	80 shake hands
C	240 shake hands
D	190 shake hands

4. What is the number of parking spaces covered by the car?



A	87
B	78
C	94
D	49

5. If  $1=3$

$$2=3$$

$$3=5$$

$$4=4$$

$$5=4$$

Then,  $6=?$

A	4
B	5
C	6
D	3

6. What two numbers should replace the question marks ?

$0,1,2,5,20,25,?,?$

7.

What is the value:

$$\frac{2 + \frac{1}{3 + \frac{4}{5}}}{2 + \frac{1}{3 + \frac{1}{1 + \frac{1}{4}}}}$$

A	1/7
B	1
C	3/7
D	8/7

8. Which one of the following is a political factor that can affect a business?

A	Taxation
B	Global warming
C	Habitat destruction
D	Part-time workers

9. Hardware device that are not part of the main computer and are often added later to the system

A	peripheral
B	Clip Art
C	Highlight
D	Execute

10. If the government lets producers and consumers set prices, but intervenes to make sure that basic necessities are available to all people, what type of economic system is that?

A	Industrial
B	Market
C	Command
D	Mixed

11. If you do not wish to perform but would enjoy helping backstage with lights and sound. Print “**stagehand** in large numbers at the top of the permission slip. What is the job of a **stagehand**?

A	To design costumes
B	To direct performers
C	To play musical instruments
D	To provide special support

12. Her .....display of tears at work did not impress her new boss who felt she should control her emotions.(choose the right vocabulary and fill up the blanks)

A	plausible
B	maudlin
C	precarious
D	meritorious

13. I have a bone to pick with you in this matter. What does the underlined idiom mean?

A	desire
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B	selfish motives
C	am angry
D	break bones

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14. His neighbours found his ..... manner bossy and irritating and they stopped inviting him to backyard barbeques. (choose the right vocabulary and fill up the blanks.)

A	reparatory
B	restorative
C	modest
D	magisterial

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15. complete the analogy  
Prince Philip had to choose ; marry the woman he loved and ..... his right to the throne or marry lady Fiona and inherit the crown:

A	reprimand
B	upbraid
C	abdicate
D	extol

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16. The ..... weather patterns of the tropical island meant tourists had to carry both umbrellas and sunglasses

A	supplicant
B	impertinent

C	kaleidoscopic
D	illustrative

17. The hot July sun cast an orange glare over the farm mountains- what is the <b>figurative device</b> in this sentence?	
A	similie
B	imagery
C	metaphor
D	hyperbole

18. The SI standard of length is based on	
A	Wavelength of light emitted by Kr86
B	The distance from the north pole to the equator along a meridian passing through Paris
C	A precision meter stick in Paris
D	The speed of light

19. Various optical processes are involved in the formation of a rainbow. Which of the following provides the correct order in time in which these processes occur?	
	
A	Refraction, total internal reflection, refraction
B	Total internal reflection, refraction, total internal reflection

C	Total internal reflection, refraction, refraction
D	Refraction, total internal reflection, total internal reflection

20. Most effective light for stomatal opening is	
A	Red
B	Blue
C	Green
D	Yellow