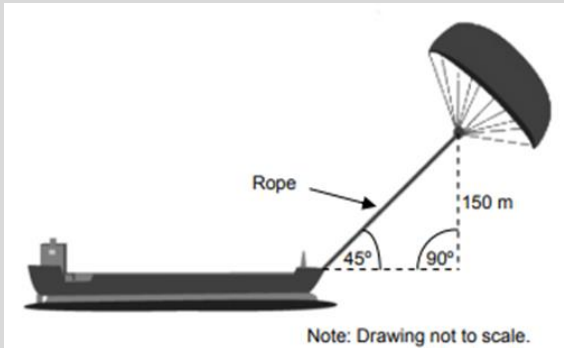




SMART CHALLENGERS

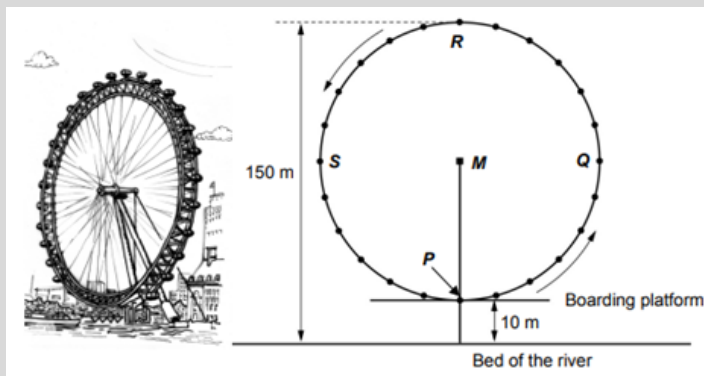
SMART CHALLENGERS QUESTIONS – MARCH 2024

1. when we say, we are going to spill the beans	
A	we are ready to help someone
B	we are sorry for what we did
C	we are going to reveal the idea
D	we are going to reveal a secret information
2. HE JOINED HIS ANCESTORS LAST YEAR IS AN EXAMPLE FOR	
A	HYPERBOLE
B	PERSONIFICATION
C	EUPHEMISM
D	IRONY
3. IDENTIFY THE ACRONYM FROM THE GIVEN SHORTFORMS	
A	SCUBA
B	UAE
C	HIV
D	AED
4. HOW DO YOU COMPLETE THE GIVEN RATIO FURIOUS IS TO ANGRY AS HIDE IS TO---	
A	REVEAL
B	HIDDEN

C	CONCEAL
D	SECRET
5. STATIONARY AND STATIONERY ARE	
A	HOMOPHONES
B	HOMOGRAPHS
C	HOMONYMS
D	SYNONYMS
6. WHICH OPTION WILL COMPLETE THE SENTENCE GIVEN BELOW, CORRECTLY? IF MY SON HAD ATTENDED THE INTERVIEW,-----	
A	HE WOULD PASS IN IT COLOURFULLY
B	HE WILL HAVE PASSED IN IT COLOURFULLY
C	HE WOULD BE PASSING IN IT COLOURFULLY
D	HE WOULD HAVE PASSED IN IT COLOURFULLY
7. AVIARY IS RELATED TO	
A	REPTILES
B	BIRDS
C	PLANTS
D	TIGERS
8) Approximately what is the length of the rope for the kite sail, in order to pull the ship at an angle of 45° and be at a vertical height of 150 m, as shown in the diagram opposite?	
	
A	173m

B	212m
C	285m
D	300m

9) A giant Ferris wheel is on the bank of a river. See the picture and diagram below. The Ferris wheel has an external diameter of 140 metres and its highest point is 150 metres above the bed of the river. It rotates in the direction shown by the arrows. The letter M in the diagram indicates the centre of the wheel. How many metres (m) above the bed of the river is point M?

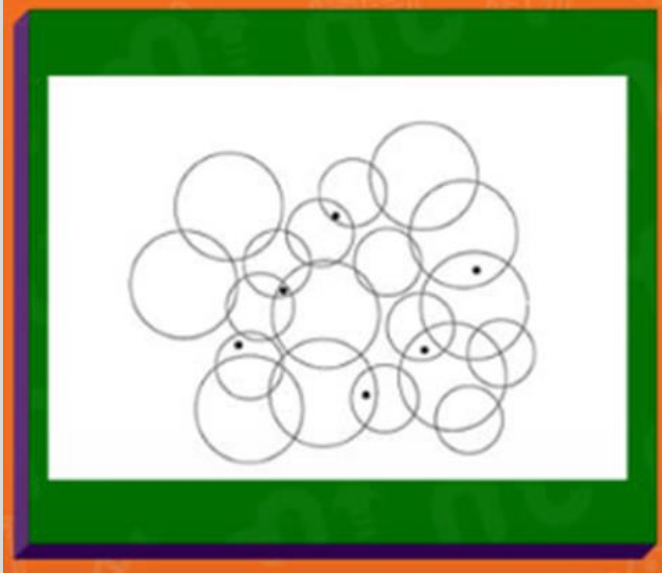


A	150m
B	70m
C	50m
D	80m

10) Normally, a penguin couple produces two eggs every year. Usually the chick from the larger of the two eggs is the only one that survives. With rockhopper penguins, the first egg weighs approximately 78 g and the second egg weighs approximately 110 g. By approximately how many percent is the second egg heavier than the first egg?

A	41%
B	32%
C	71%
D	29%

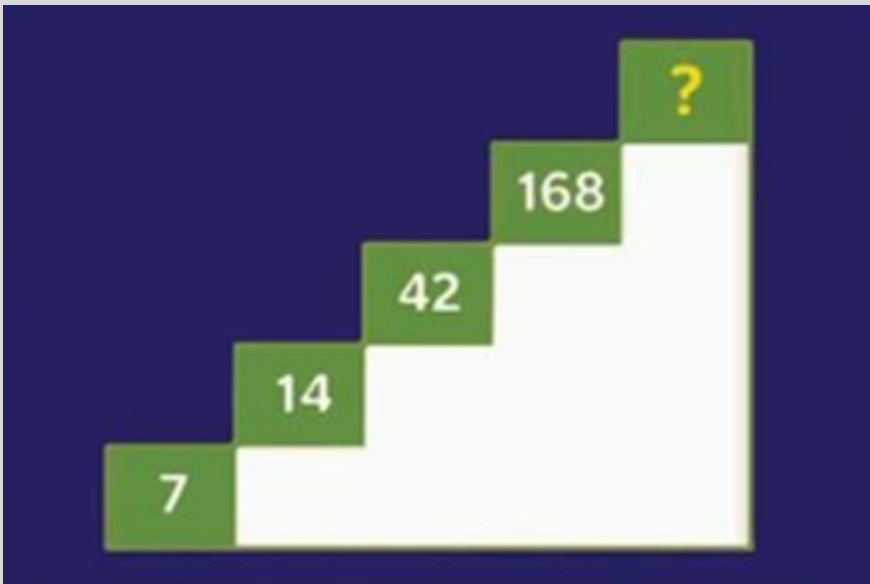
11.



can you count the number of circles that contain a black dot?

A	6
B	12
C	18
D	10

12.



What number belongs on the top step?

A	214
B	268
C	780

D	840
13. Describe how the graph of $g(x)=x^3 - 5$ can be obtained by shifting $f(x) = x^3 + 2$.	
A	Shift right 7 units
B	Shift left 7 units
C	Shift down 7 units
D	Shift up 7 units
14. In a lottery, there are 10 prizes and 20 blanks. What is the probability of getting a prize?	
A	1/3
B	1/2
C	1/10
D	1
15. Which of the following example is a decomposition reaction?	
A	Evaporation of water
B	Exposure of photographic film in the presence of light
C	Heating sulphur in the presence of oxygen
D	Dissolving salt in water

16. Which of the following terms is appropriate? There are many fruits grown seedless for example : oranges, grapes and bananas etc. Such type of reproduction is known as development of fruits without fertilisation.	
A	Parthenocarpy
B	Apomixis
C	Parthenogenesis

D	Apospory
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17. Which of the following situations is true and possible?	
A	If the velocity of a body is zero, then the acceleration can be non-zero
B	A body moving at a constant velocity can have acceleration
C	The magnitude of distance and displacement are equal in a circular motion
D	All of the above

18. Which of the following is a benefit of MNC/FDI for a host country	
A	Lower interest rate
B	Lower exchange rate
C	Higher employment levels
D	Lower economic growth

19. Which one of the following is the effect on a business of having diseconomies of scale?	
A	Higher profits
B	Rising average total costs
C	Lower total costs
D	Lower break-even point

20. Which of the following is a founding member of the Black Panther Party?	
A	Malcolm X
B	Dr. Martin Luther King

C	Huey P. Newton
D	None of these are correct.

21. What type of device would allow a vehicle to place a warning on the dashboard, which might also notify the car's owner and the manufacturer?	
A	digital network
B	generator
C	smartphone
D	sensor