

SMART CHALLENGERS

SMART CHALLENGERS QUESTIONS – SEPTEMBER 2024

1. FRIEND IS TO FOE AS COURAGE IS TO-----(fill in the blanks with the suitable word)

A	DISCOURAGE
B	COWARDICE
C	COURAGEOUS
D	BRAVERY

2. FIND THE WORD THAT DOESN'T SHARE A COMMON FEATURE

Parliament, school, pride, office

A	PRIDE
B	PARLIAMENT
C	SCHOOL
D	OFFICE

3. identify the figure of speech used in the sentence given

TEN THOUSAND DAFFODILS WERE DANCING IN THE BREEZE

A	SIMILE
B	METAPHOR
C	HYPERBOLE AND PERSONIFICATION
D	PERSONIFICATION
4. MY BROTHER HAS BEEN UNDER THE WEATHER THE WHOLE WEEK MEANS	
A	HE WAS ANGRY
B	HE WAS AT A COLD REGION
C	HE WAS HAPPY AND RELAXED
D	HE WAS SICK
5. IDENTIFY THE PART OF SPEECH OF THE GIVEN WORD	
HARD	
A	ADJECTIVE AND ADVERB
B	ADVERB
C	ADJECTIVE
D	NOUN
6. OH SILENCE! ARE YOU KILLING ME?	
THIS IS AN EXAMPLE FOR	
A	HYPERBOLE

B	EUPHEMISM
C	APOSTROPHE
D	METAPHOR

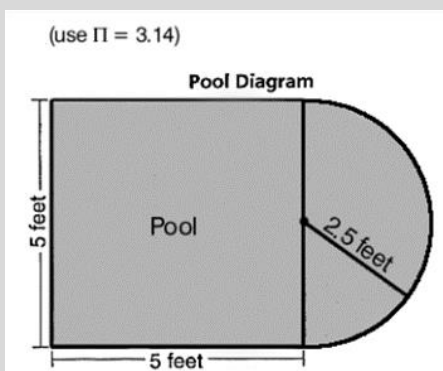
7. IT'S RAINING CATS AND DOGS CARRY

A	LITERAL MEANING
B	NON-LITERAL MEANING
C	VAGUE MEANING
D	WRONG MEANING

8. Frank and Joey ordered a large pizza. Frank ate 30% of the pizza, and Joey ate $\frac{2}{5}$ of the pizza. What percentage of the pizza did they eat in all?

A	50%
B	60%
C	70%
D	75%

9. A hotel is building a children's wading pool in the shape of a square with a semicircle on one side. A diagram of the pool is shown below. What is the perimeter of the children's pool?

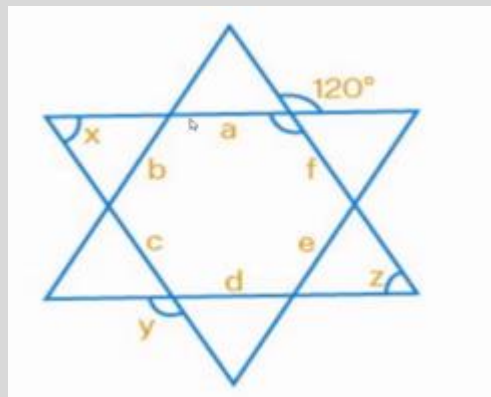


A	22.85 feet
B	27.85 feet
C	40.70 feet
D	45.70 feet

10. In a class of 30 pupils, 12 study GCSE biology -B, 10 study GCSE chemistry -C, and 8 study GCSE physics -P. If this information is represented by a pie chart, what is the sector angle for each subject?

A	B=144° ; C=120° ; P=96°
B	B=12° ; C=10° ; P=8°
C	B=144° ; C=116° ; P=100°
D	B=144° ; C=110° ; P=96°

11. Amisha makes a star with the help of line segments a, b, c, d, e, and f, in which a || d, b || e and c || f. Chhaya marks an angle as 120° as shown in fig. and asks Amisha to find x, y, z. Help Amisha in finding the angles.

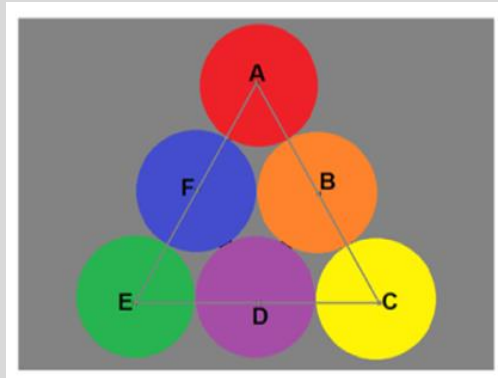


A	x=120°, y=60°, z=60°
B	x=60°, y=120°, z=120°
C	x=60°, y=120°, z=60°
D	x=80°, y=120°, z=60°

12. What two special properties do all regular polygons have ?

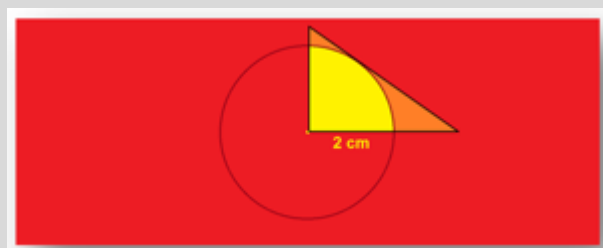
A	They have equal side lengths and equal areas
B	They have equal side lengths and equal perimeters
C	They have equal internal angles and equal diagonals
D	They have equal side lengths and equal interior angles

13. The diameter of each circle is 4cm and each letter corresponds to the centre of each particular circle, What is the length of the triangular path ABCDEFA?



A	12cm
B	24cm
C	22cm
D	48cm

14. In the diagram below, the right-angled triangle has its right angle at the centre of a circle of radius 2cm. What is the area of the yellow sector?

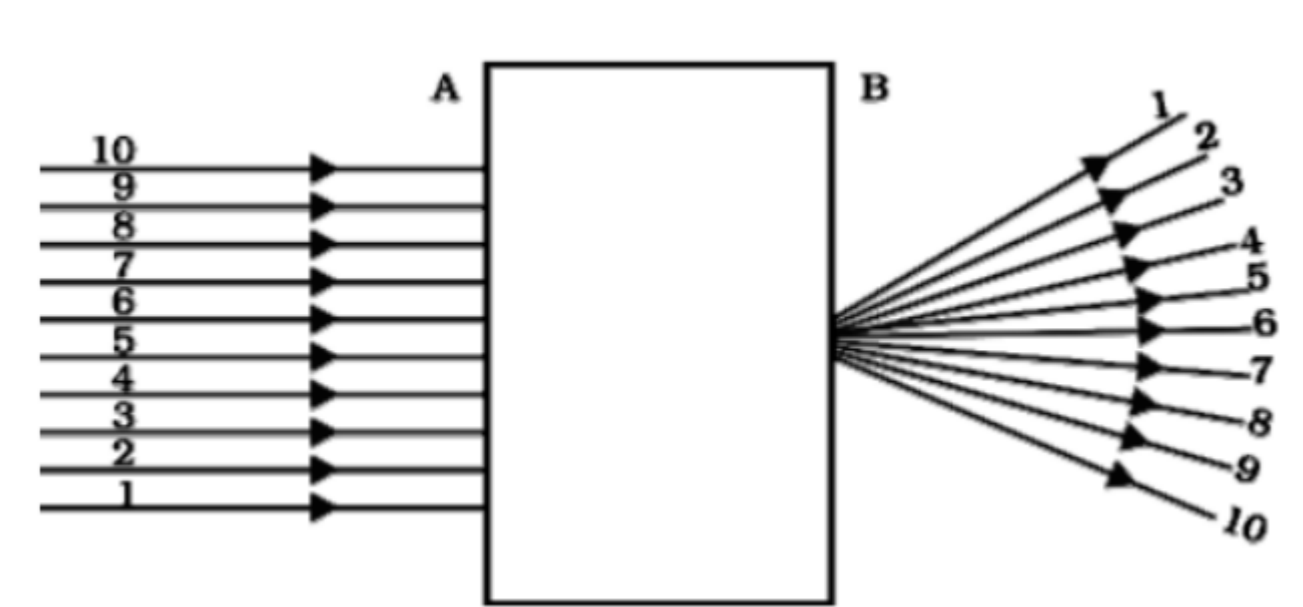


A	90 cm^2
B	2 cm^2
C	$2\pi \text{ cm}^2$

D	$\pi \text{ cm}^2$
15. Non-metals which are lustrous and good conductor of electricity respectively are _____ and _____	
A	iodine, graphite
B	iron, sulphur
C	sulphur, graphite
D	iodine, phosphorous

16. Which of the following families does potatoes and tomato belong to?	
A	Cruciferae
B	Solanaceae
C	Malvaceae
D	All of the above

17. A beam of light is incident through the holes on side A and emerges out of the holes on the other face of the box as shown in the figure. Which of the following could be inside the box?



A	Concave lens
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B	Rectangular glass slab
C	Prism
D	Convex lens

18. Which of the following is a reason why some firms remain small?

A	Lack of unskilled labour
B	High tariffs on exports
C	Lack of finance
D	Low interest rates

19. Which one of the following is the method of production where one unit of output is completed at a time?

A	Lean
B	Flow
C	Batch
D	Job

20. What can be understood as basic education as per United Nations' Academic Impact?

A	Education that provides professional and specialized training
B	Education that aims to meet basic learning needs.
C	Education acquired at home
D	Education with all major subjects in the curriculum

21. Why would you write a query in MS Access?

A	To store data
B	To create reports
C	To filter, sort, and extract data from tables
D	To format data