1. Which of the following is true ?

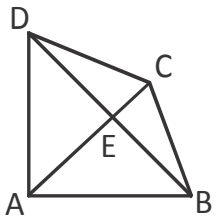
(A) Every mixed fraction can be written as a proper fraction

(B) Every mixed fraction can be written as an improper fraction

(C) A proper fraction can be written as a mixed fraction.

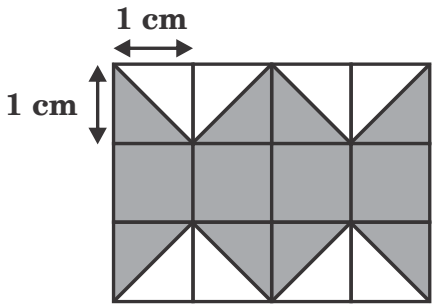
(D) A proper fraction can be written as an improper fraction

2. How many triangles are there in the given figure ?



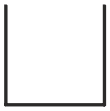
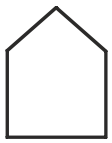
(A) 4 (B) 6 (C) 8 (D) 7

3. What is the area of the shaded figure ?



(A) 4 cm^2 (B) 6 cm^2 (C) 8 cm^2 (D) 10cm^2

4. Which figure is a polygon ?

(A)  (B) (C)  (D)

5. What is the value of $x^2 + 12x + 36$ when x = 64 ?

(A) 3000 (B) 4900 (C) 2600 (D) 5000

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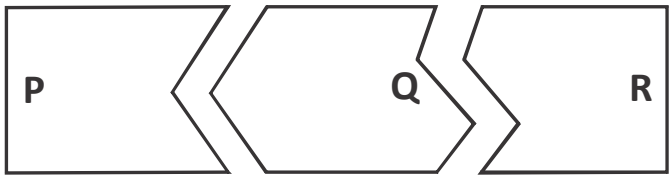
6. **A magnet is broken into three pieces.**

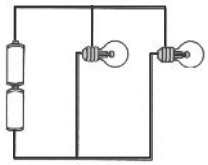


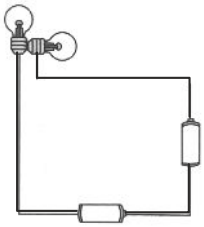
If Q is the N - pole, which one correctly shows the poles at P and R respectively ?

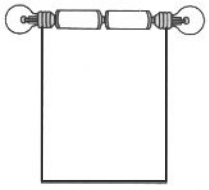
(A) N - pole, S - pole (B) S - pole, N - pole

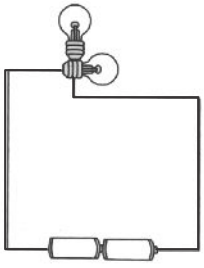
(C) N - pole, N - pole (D) S - pole, S - pole

7. **In which of the circuits shown below will only one bulb light up ?**

(A) 

(B) 

(C) 

(D) 

8. **A cell is generally provided with a cap. The main function performed by this cap is to**

(A) seal the contents of the cell.

(B) keep various parts of cell in their place.

(C) act as positive terminal of the cell.

(D) all the three.

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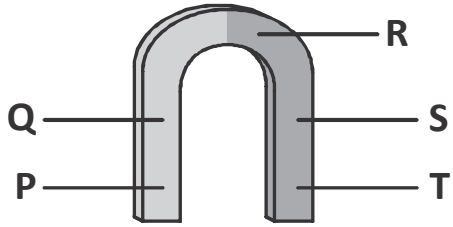
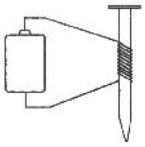
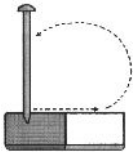
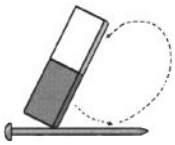
9. Which part(s) of the magnet shown below can attract most of the paper clips ?



(A) Only R
(B) Only P and T
(C) Only Q and S
(D) Only Q, R and S

10. Which of the following are not the correct ways of making a magnet ?

A)  **(B)**  **(C)**  **(D)**

(A) A and B only
(B) A and C only
(C) B and D only
(D) B, C and D only

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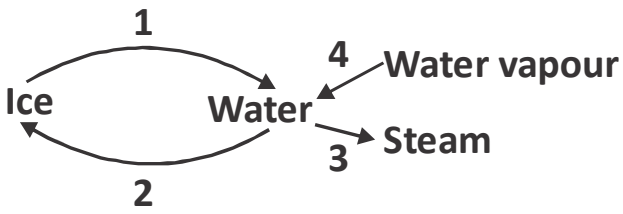
11. Read the table given below.

(A)	Does it have an atmosphere ?	Yes	Go to (B)
		No	W
(B)	Is the atmosphere mainly made up of carbon dioxide ?	Yes	Z
		No	Go to (C)
(C)	Does the atmosphere contain other gases like nitrogen, water and oxygen ?	Yes	Y
		No	X

Which one is the most suitable place for living things to survive ?

(A) X (B) Z (C) Y (D) W

12. Identify the processes based on the given flow chart.



	1	2	3	4
(A)	Freezing	Melting	Evaporation	Condensation
(B)	Melting	Freezing	Boiling	Condensation
(C)	Freezing	Melting	Boiling	Evaporation
(D)	Melting	Freezing	Evaporation	Cooling

13. Saline water is NOT used for

(A) washing clothes. (B) drinking.

(C) agriculture. (D) all the three.

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14. **A student conducted an experiment to observe water evaporation using different size of beakers that were placed under the same conditions. Below is the result of his experiment.**

Beaker	Amount of water at the beginning	Amount of water at the end
1	100 ml	70 ml
2	90 ml	75 ml
3	80 ml	55 ml
4	70 ml	65 ml

Which one is the correct order of the surface area of the beaker from the smallest to the widest ?

(A) 1 – 2 – 3 – 4 (B) 2 – 1 – 4 – 3

(C) 4 – 2 – 3 – 1 (D) 3 – 4 – 1 – 2

15. **In wheat flour, flour is a wanted component and unwanted component is X.**

Y is a mixture. Grain seeds is a wanted component and stalks is an unwanted component

Identify X and Y.

	X	Y
(A)	Husk	Cut paddy
(B)	Wheat	Husk
(C)	Husk	Sawdust
(D)	Husk	Sand

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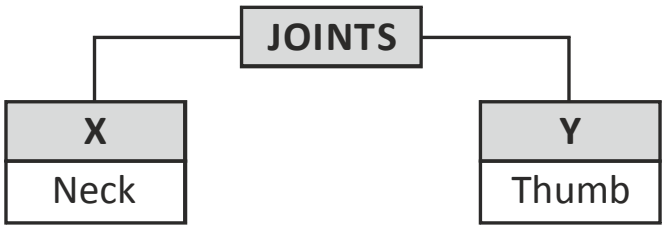
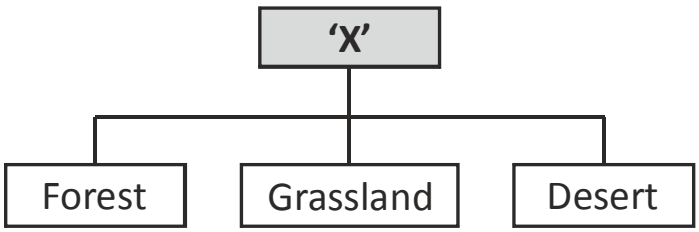
16. Identify X and Y in the given chart.



(A) X - Gliding; Y - Pivot (B) X - Hinge; Y - Ball & Socket

(C) X - Pivot; Y - Saddle (D) X - Ball & Socket; Y - Hinge

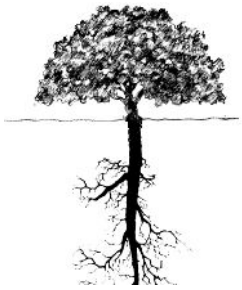
17. Identify 'X' in the given classification.



(A) Aquatic ecosystem (B) Marine ecosystem

(C) Terrestrial ecosystem (D) Aerial ecosystem

18. Which of these plants would have a root structure similar to one shown in the given figure ?



(A) Maize (B) Barley (C) Paddy (D) Balsam

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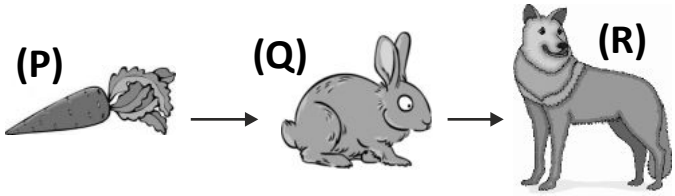
19. **The arrow (⟶) in the given figures show. "This eats that". Who is the Predator ?**



(A) Only P (B) Only Q

(C) P and Q (D) Only R

20. **Pick the odd one out.**

(A)

(B)

(C)

(D)

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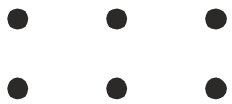
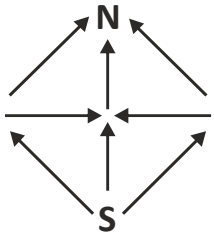
21. **How many triangles can you draw using any 3 dots shown below as the vertices ?**



(A) 9 (B) 16 (C) 18 (D) 24

22. **Between S and N all are one-way roads. How many different ways can Kiran drive from S to N ?**



(A) 3 (B) 4 (C) 5 (D) 6

23. **You are a participant in a race. You pass the person in second place. What position are you in ?**

(A) First (B) Third (C) Second (D) Fourth

24. **50 marbles are to be put into 8 boxes. So that each box has atleast 1 marble. What is the maximum number of marbles can be put in a box ?**

(A) 8 (B) 32 (C) 43 (D) 7

25. **Moni's mother has four children. The first child is called April. The second May. The third is June. What is the name of the fourth child ?**

(A) July (B) August

(C) March (D) None

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