

CHAPTER

09

SPACE VISUALISATION

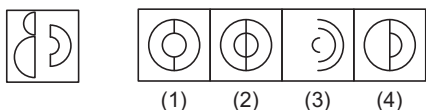
Space visualisation or formation of figures refers to the use of pieces of different designs to construct a desired figure. It requires a high spacial visualisation skill, as different fragmented parts of a figure are combined to form the desired figure.

In this chapter, two sets of figures are provided namely question figure and answer figures. A candidate is asked to arrange the different components of the question figure. So as to form one of the answer figure. Students, while solving these questions must kept following points in mind

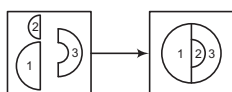
- First of all, mark all the designs with numbers and any unique code.
- Corelate all the designs with the help of marked numbers and codes.

Example 1.

Ques. Fig. **Ans. Fig.**



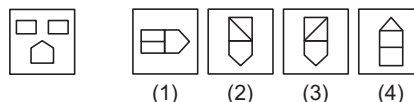
Sol. (4)



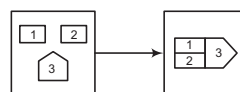
Answer figure (4) can be formed from the cut pieces of the question figure.

Example 2.

Ques. Fig. **Ans. Fig.**



Sol. (1)

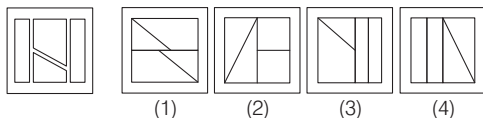


Answer figure (1) can be formed from the cut pieces of the question figure.

Entrance Corner

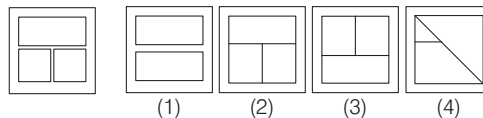
Directions (Q.Nos. 1-19) In the given questions, there is a question figure, observe the answer figure 1, 2, 3 and 4 and find out the answer figure which can be formed from the cut pieces of question figure?

1. **Ques. Fig.** **Answer Fig.**














































































[JNV 2019]

2. **Ques. Fig.** **Answer Fig.**



[JNV 2019]

- Ques. Fig.** **Ans. Fig.**
3.  (1)  (2)  (3)  (4) 
[JNV 2019]
4.  (1)  (2)  (3)  (4) 
[JNV 2019]
5.  (1)  (2)  (3)  (4) 
[JNV 2019]
6.  (1)  (2)  (3)  (4) 
[JNV 2019]
7.  (1)  (2)  (3)  (4) 
[JNV 2019]
8.  (1)  (2)  (3)  (4) 
[JNV 2019]
9.  (1)  (2)  (3)  (4) 
[JNV 2019]

- Ques. Fig.** **Ans. Fig.**
10.  (1)  (2)  (3)  (4) 
[JNV 2017]
11.  (1)  (2)  (3)  (4) 
[JNV 2017]
12.  (1)  (2)  (3)  (4) 
[JNV 2016]
13.  (1)  (2)  (3)  (4) 
[JNV 2016]
14.  (1)  (2)  (3)  (4) 
[JNV 2015]
15.  (1)  (2)  (3)  (4) 
[JNV 2015]
16.  (1)  (2)  (3)  (4) 
[JNV 2013]
17.  (1)  (2)  (3)  (4) 
[JNV 2013]

Answers

1 (3)	2 (2)	3 (2)	4 (1)	5 (1)	6 (4)	7 (2)	8 (2)	9 (1)	10 (4)
11 (2)	12 (1)	13 (1)	14 (3)	15 (2)	16 (2)	17 (1)			

Practice Exercise

Directions (Q.Nos. 1-20) In the given questions, there is a problem figure, observe the answer figure (1), (2), (3) and (4) and find out the answer figure which can be formed from the cut pieces of problem figure?

	Ques. Fig.	Ans. Fig.			
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
















	Ques. Fig.	Ans. Fig.			
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					

Answers











1 (3)	2 (1)	3 (1)	4 (2)	5 (2)	6 (2)	7 (4)	8 (1)	9 (3)	10 (1)
11 (2)	12 (4)	13 (1)	14 (1)	15 (1)	16 (4)	17 (1)	18 (1)	19 (4)	20 (1)


























Self Practice

Directions (Q.Nos. 1-10) In the given questions, there is a question figure, observe the answer figure (1), (2), (3) and (4) and find out the answer figure which can be formed from the pieces of question figure?

- Que. Fig.** **Ans. Fig.**
1.     
- (1) (2) (3) (4)
2.     
- (1) (2) (3) (4)
3.     
- (1) (2) (3) (4)

Que. Fig. Ans. Fig.

4.     
- (1) (2) (3) (4)
5.     
- (1) (2) (3) (4)

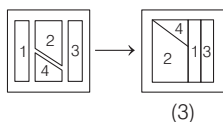
- Ques. Fig.** **Ans. Fig.**
6.     
- (1) (2) (3) (4)
7.     
- (1) (2) (3) (4)
8.     
- (1) (2) (3) (4)
9.     
- (1) (2) (3) (4)
10.     
- (1) (2) (3) (4)

Answers

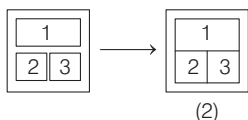
1 (3)	2 (2)	3 (2)	4 (4)	5 (3)	6 (3)	7 (3)	8 (2)	9 (2)	10 (1)
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Hints and Solutions

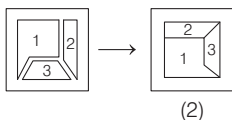
1. Answer figure (3) can be formed from the cut out pieces given in the question figure.



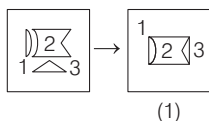
2. Answer figure (2) can be formed from the cut out pieces given in the question figure.



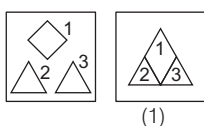
3. Answer figure (2) can be formed from the cut out pieces given in the question figure.



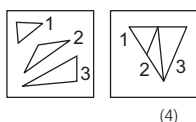
4. Answer figure (1) can be formed from the cut out pieces given in the question figure.



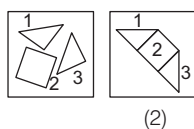
5. Answer figure (1) can be formed from the cut out pieces given in the question figure.



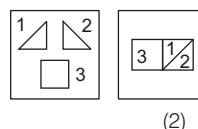
6. Answer figure (4) can be formed from the cut out pieces given in the question figure.



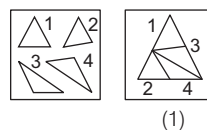
7. Answer figure (2) can be formed from the cut out pieces given in the question figure.



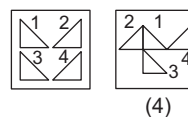
8. Answer figure (2) can be formed from the cut out pieces given in the question figure.



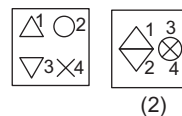
9. Answer figure (1) can be formed from the cut out pieces given in the question figure.



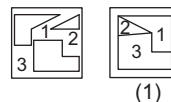
10. Answer figure (4) can be formed from the cut out pieces given in the question figure.



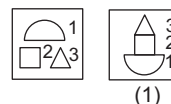
11. Answer figure (2) can be formed from the cut out pieces given in the question figure.



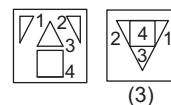
12. Answer figure (1) can be formed from the cut out pieces given in the question figure.



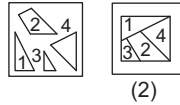
13. Answer figure (1) can be formed from the cut out pieces given in the question figure.



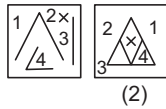
14. Answer figure (3) can be formed from the cut out pieces given in the question figure.



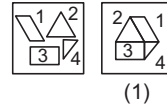
15. Answer figure (2) can be formed from the cut out pieces given in the question figure.



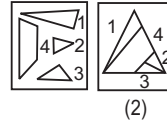
16. Answer figure (2) can be formed from the cut out pieces given in the question figure.



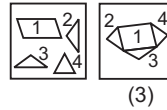
17. Answer figure (1) can be formed from the cut out pieces given in the question figure.



18. Answer figure (2) can be formed from the cut out pieces given in the question figure.

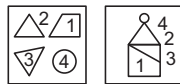


19. Answer figure (3) can be formed from the cut out pieces given in the question figure.

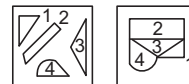


Practice Exercise

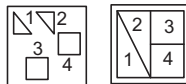
1. Answer figure (3) can be formed from the cut pieces given in the question figure.



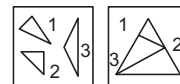
6. Answer figure (2) can be formed from the cut pieces given in the question figure.



2. Answer figure (1) can be formed from the cut pieces given in the question figure.



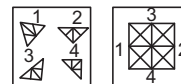
7. Answer figure (4) can be formed from the cut pieces given in the question figure.



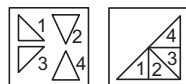
3. Answer figure (1) can be formed from the cut pieces given in the question figure.



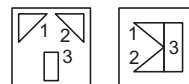
8. Answer figure (1) can be formed from the cut pieces given in the question figure.



4. Answer figure (2) can be formed from the cut pieces given in the question figure.



9. Answer figure (3) can be formed from the cut pieces given in the question figure.



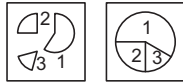
5. Answer figure (2) can be formed from the cut pieces given in the question figure.



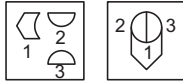
10. Answer figure (1) can be formed from the cut pieces given in the question figure.



11. Answer figure (2) can be formed from the cut pieces given in the question figure.



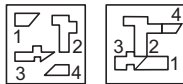
12. Answer figure (4) can be formed from the cut pieces given in the question figure.



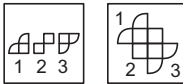
13. Answer figure (1) can be formed from the cut pieces given in the question figure.



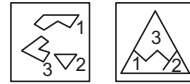
14. Answer figure (1) can be formed from the cut pieces given in the question figure.



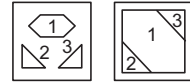
15. Answer figure (1) can be formed from the cut pieces given in the question figure.



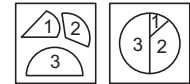
16. Answer figure (4) can be formed from the cut pieces given in the question figure.



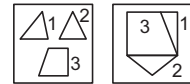
17. Answer figure (1) can be formed from the cut pieces given in the question figure.



18. Answer figure (1) can be formed from the cut pieces given in the question figure.



19. Answer figure (4) can be formed from the cut pieces given in the question figure.



20. Answer figure (1) can be formed from the cut pieces given in the question figure.

