



## DEPARTMENT OF EMPLOYMENT AND TRAINING

### TNPSC GROUP II A MAINS - UNIT II

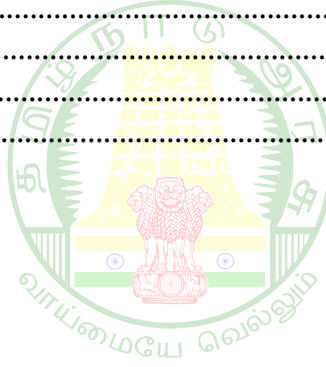
**Course :** TNPSC Group II A Mains Material

**Subject :** General Intelligence and Reasoning

**Topic :** Analogy

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Director,  
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## Analogy

### Analogy- Comparing different things

An analogy is a comparison between two things, typically for the purpose of explanation or clarification. It highlights the similarities between two concepts, suggesting that if they share certain characteristics, they may share others as well. Analogies are often used to make complex ideas easier to understand by relating them to something familiar.

For example,

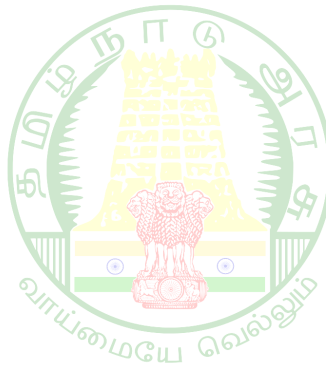
**Book : Cover:: House: Door**

Here, The entry part of the book is cover. Same as the entry part of the house is the door.

### Why we want to study Analogy:

To develop the following things

1. Problem solving Skills
2. Learning and Understanding
3. Analytical capability
4. Decision making
5. Creativity



### Types of Analogy:

1. Based on Numbers
2. Based on Alphabets / words
3. Mixed with Numbers and Letters
4. Based on Images
5. Based on General Knowledge

### Based on Numbers:

- In this type of analogy reasoning, you are given a pair of numbers that share a specific relationship, like addition, subtraction, multiplication, or other mathematical patterns.
- Sometimes, they are given as prime numbers, Composite numbers, square and cube values also.

### Example:

1.  $43 : 129 :: 34 : ?$

Answer: 102

$$43 \times 3 = 129; \quad 34 \times 3 = 102$$

2.  $81 : 9 :: 289 : ?$

Answer: 17

$$9 \times 9 = 81; \quad 17 \times 17 = 289$$

**Based on Alphabets / words:**

- In letter/word-based analogy reasoning, you are given pairs of letters or words that follow a specific logical pattern.
- Your task is to identify the relationship between the first pair and apply the same logic to the second pair.

**The relationships can involve:**

1. Position of Letters: Shifting letters in the alphabet by a certain number.
2. Opposite Letters: Pairing letters that are opposite in the alphabet (A is opposite of Z, B is opposite of Y, etc.).
3. Synonyms/Antonyms: Using words that are similar (synonyms) or opposite (antonyms) in meaning.
4. Uses: Products and its uses also.

**Examples:**

1.  $CBA : GFE :: VUT : ?$

Answer: ZYX

The letters are written in reverse format.

2. Car : Engine :: Human : ?

Answer: Heart

Engine is the heart of Car.



**Mixed with Numbers and Letters:**

In this type of analogy reasoning, both numerical values and alphabets are combined in the given pairs.

**Example:**

1.  $AB : 3 :: EF : ?$

Answer: 11

$$A + b = 1 + 2 = 3; \quad E + F = 5 + 6 = 11$$

These are the place values of alphabets.

2.  $A26 : Z1 :: M14 : ?$

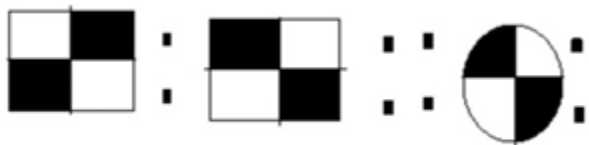
Answer: N13

Opposite letters and Opposite place values.

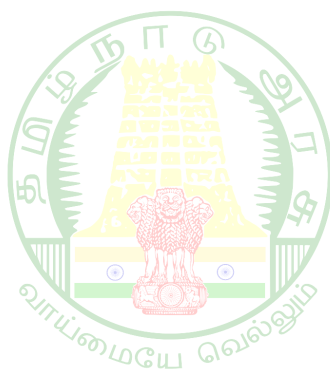
**Based on Images:**

It is also based on the above types, but here, they are given as images instead of numbers or letters.

Example:



- a.
- b.
- c.
- d.



Answer: c.

Explanation:

First image shaded some parts and the second image shaded opposite parts of the first image.

**Based on General Knowledge:**

General knowledge based analogies are using general things like units, states, countries and its capitals, Currencies, rivers and its tributaries etc..

Example:

1. India: Rupee :: China : ?

Ans: Yuan

Country and its currency

2. Clothes : Meter :: Milk : ?

Ans: liter

Products and measuring units.

**Tips to solve Analogy questions:**

1. Understand the relationship
2. Think creatively
3. Analyse the options
4. Try to eliminate the options
5. Practice regularly

**Variety of Questions:**

1. 11: 1331 :: 08: ?

- a. 729
- b. 512
- c. 1000
- d. 656

**Answer: b. 512**

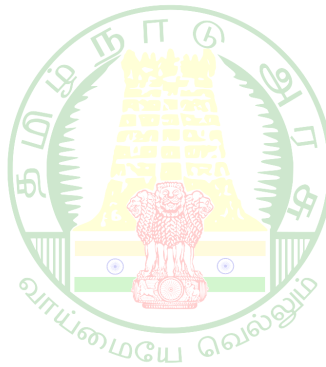
Explanation:  $(11 \times 11 \times 11) = 1331$

$$(8 \times 8 \times 8) = 512$$

2. CX : FU :: JQ : ?

- a. LO
- b. KP
- c. MN
- d. HS

**Answer : c. MN**



Explanation: C is opposite to X. 2 places skipped. The next letter is F. F is opposite to U. Similarly J & Q. 2 places skipped and the next letter is M. M is opposite to N.

3.  $56 : 30 :: 132 : ?$

- a. 48
- b. 90
- c. 144
- d. 102

**Answer : b. 90**

Explanation:  $(7 \times 7) + 7 = 49 + 7 = 56$ ,  
 $(5 \times 5) + 5 = 25 + 5 = 30$ ,  $121 + 11 = 132$ ,  $81 + 9 = 90$

4. Deer : Leaves :: Tiger : ?

- a. Worms
- b. Fruits
- c. Vegetables
- d. Meat

**Answer: d. Meat**

Explanation: Deer eats leaves. Tiger eats meat.

5. Chennai : Madras :: Prayagraj : ?

- a. Gandhinagar
- b. Ludhiana
- c. Allahabad
- d. Aligarh

**Answer: c. Allahabad**

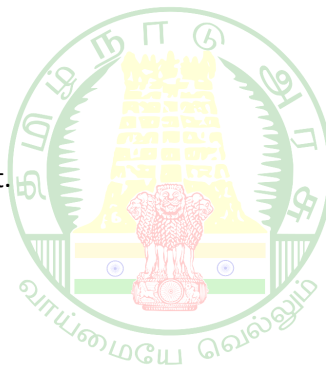
Explanation: Madras was renamed as Chennai. Allahabad was renamed as Prayagraj.

6. BUS : 12 :: TRAIN : ?

- a. 20
- b. 12
- c. 43
- d. 24

**Answer: a. 20**

Explanation: BUS – 3 letters =  $3 \times 4 = 12$   
TRAIN – 5 letters =  $5 \times 4 = 20$



7. Select the set in which the numbers are related in the same way as are the numbers of the following set.  
( 12,6,4)

- a. (36,6,12)
- b. (54,12,12)
- c. (24,8,18)
- d. (42,13,18)

**Answer: a. (36,6,12)**

Explanation:  $6 \times 4 / 2 = 12$ ,  $6 \times 12 / 2 = 36$

8. Find the odd one out from the given pairs.

- a. 5:15
- b. 24:70
- c. 33:99
- d. 121:363

**Answer: b. 24:70**

Explanation:  $5 \times 3 = 15$ ;  $33 \times 3 = 99$ ;  $121 \times 3 = 363$ ;  $24 \times 3 = 72$

9. A3 : C9 :: H24 : ?

- a. J30
- b. K33
- c. I27
- d. F18

**Answer: a. J30**

Explanation: A = 1,  $1 \times 3 = 3$ ; C = 3,  $3 \times 3 = 9$ ;

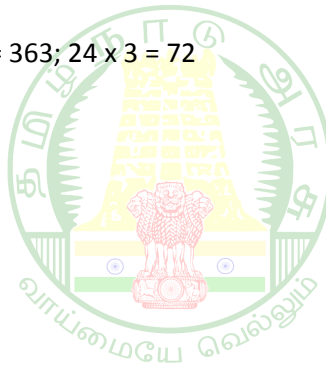
H = 8,  $8 \times 3 = 24$ ; J = 10,  $10 \times 3 = 30$

10. Gukesh : Chess :: Sharath Kamal : ?

- a. Badminton
- b. Football
- c. Hockey
- d. Table tennis

**Answer: d. Table tennis**

Explanation: Gukesh is a Chess player. Similarly, Sharath Kamal is a Table tennis player.



11. Find the correct image.



- a.
- b.
- c.
- d.

**Answer: a.**

Explanation: In the first pair, the second image is rotated opposite to the first one. Similarly the second pair also.

12. Ooty : Mudumalai :: ? : Pulicat

- a. Kanchipuram
- b. Chennai
- c. Thiruvallur
- d. Chengalpet

**Answer: c. Thiruvallur**

Explanation: Mudumalai is located in Ooty district. Pulicat is located in Thiruvallur district.

13. Sun : ? :: Earth : Planet

- a. Satellite
- b. Planet
- c. Galaxy
- d. Star

**Answer: d. Star**

Explanation: Earth is a planet. Sun is a star.





14. Square : 4 :: Heptagon : ?

- a. 6
- b. 7
- c. 8
- d. 9

**Answer: b. 7**

Explanation: A square contains 4 sides. Heptagon contains 7 sides.

15. T : 27 :: P : ?

- a. 27
- b. 22
- c. 29
- d. 25

**Answer : a. 27**

Explanation: The place value of T is 20 and its opposite place value is 7. Totally  $20 + 7 = 27$ .

The place value of P is 16 and its opposite place value is 11. Totally  $16 + 11 = 27$ .

16. VTQ : NLI :: CAX : ?

- a. JHE
- b. USP
- c. OMK
- d. TRO

**Answer: b. USP**

Explanation:

V - 2 places = T, T - 3 places = Q, From Q skip 2 places next letter is N.

N - 2 places = L, L - 3 places = I,

C - 2 places = A, A - 3 places = X, From X skip 2 places next letter is U.

U - 2 places = S, S - 3 places = P.

17. Choose the related one: Sericulture : Silk

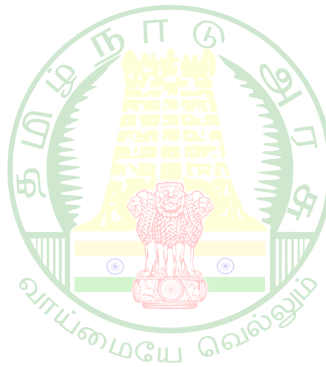
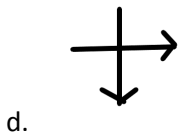
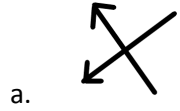
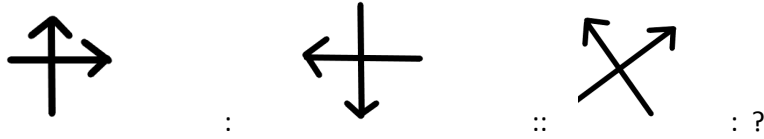
- a. Apiculture : Saffron
- b. Viticulture : Grapes
- c. Pisciculture : Ornamental plants
- d. Horticulture: Fish

**Answer: b. Viticulture : Grapes**

Explanation: Cultivation of silk is called as Sericulture. Cultivation of grapes is called as viticulture.



18. Find the correct image.



**Answer: b.**

Explanation: In the first pair, both images are placed opposite directions. So, the second pair also follows this.

19. Select the number pair in which the two numbers are related in the same way as the two numbers of the following number pair.

(15: 255)

- a. 9 : 99
- b. 11 : 121
- c. 8 : 78
- d. 13 : 195

**Answer: d. 13 : 195**

Explanation:  $15 \times 15 = 225$ ,  $225 + 30 = 255$

$13 \times 13 = 169$ ,  $169 + 26 = 195$

20. PRAISE : ARPESI :: CARROT : ?

- a. CRATOR
- b. RACTOR
- c. CRAORT
- d. ACRORT

**Answer: b. RACTOR**

Explanation: PRAISE – PRA & ISE – These pair of letters are interchanged

PRAISE = ARPESI, Similarly, CARROT also interchanged its position.

CARROT – RACTOR

21. Chatrapati shivaji airport : Mumbai

- a. Veer Savarkar airport : Guwahati
- b. Babasaheb ambedkar airport : Ahmadabad
- c. Lalbahadur Shastri airport : Varanasi
- d. Jay prakash Narayan airport : Allahabad

**Answer: c. Lal Bahadur shastri airport : Varanasi**

Explanation: International airports and its locations are given. The logic is match the airports and its exact location.

22. Suresh Raina : Cricket :: Sunil Chetri : ?

- a. Hockey
- b. Football
- c. Basketball
- d. Tennis

**Answer: b. Football**

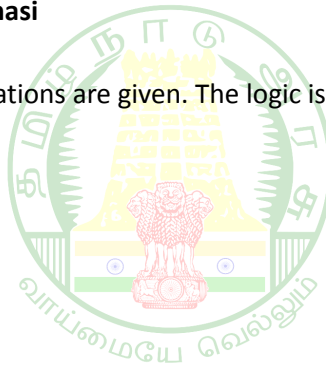
Explanation: Suresh Raina is a cricket player. Sunil chetri is a football player.

23. Oscar : Fillm :: Kalinga : ?

- a. Sports
- b. Literature
- c. Music
- d. Science

**Answer: d. Science**

Explanation: Oscar award is related with Film. Similarly, Kalianga is an award presented by UNESCO for science achievement.



24. DE : 45 :: HI : ?

- a. 23
- b. 89
- c. 54
- d. 61

**Answer: b. 89**

Explanation: The place values of D, E is 4 and 5 respectively.

The place values of H and I is 8 and 9 is respectively.

25. Dog : Puppy :: Lion

- a. Calf
- b. Cub
- c. Lamb
- d. Farrow

**Answer : b. Cub**

Explanation: The Baby of Dog is called as Puppy. Baby of lion is called as Cub.

**Practice Questions:**

1. Mamta Banerjee : West Bengal :: Hemanth Choren : ?

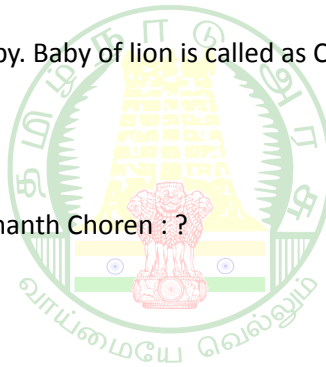
- a. Chattisgarh
- b. Jharkhand
- c. Odisha
- d. Manipur

2. ISRO : India :: ESA : ?

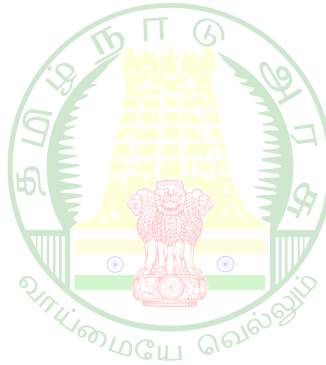
- a. Japan
- b. China
- c. European Union
- d. Russia

3. (15, 49, 151)

- a. (12, 40, 124)
- b. (8, 24, 72)
- c. (9, 30, 93)
- d. (10, 34, 102)



4.  $125 : 5 :: ? : 9$
- 81
  - 243
  - 729
  - 558
5.  $YWU : FDB :: LJH : ?$
- SQO
  - OQS
  - RPN
  - NPR
6.  $\text{Mango} : 40 :: \text{Break} : ?$
- 31
  - 29
  - 33
  - 25
7.  $\text{Vitamin A} : \text{Eyes} :: \text{Vitamin D} : ?$
- Lungs
  - Heart
  - Bone
  - Liver
8.  $\text{Tamil} : \text{Tamilnadu} :: \text{Tulu} : ?$
- Telangana
  - Odisha
  - Meghalaya
  - Karnataka
9.  $\text{AIDS} : \text{Virus}$
- Hepatitis : Protozoa
  - Pneumonia : Bacteria
  - Malaria : Virus
  - Dengue fever : Fungus



10. E : 484 :: ? : 256

- a. K
- b. R
- c. P
- d. H

**Answers:**

1	2	3	4	5	6	7	8	9	10
b	C	a	c	a	b	c	d	b	a

