

Logical Reasoning

- Syntax:
 - [Positions] ... [Change]

Number Series

Type 1

- Syntax:
 - [Positions] ... [Change]
- Example

1. 544 509 474 439:
- 1,2,3 ... −45
2. 14,28,20,40,32,64:
- 1,2,3 ... *2
3. 80,10,70,15,60:
- 1,3,5 ... −10
- 2,4,6 ... +5
4. 8,6,9,23,87:
- 1,2,3 ... $m = 1 \gg n * m - (m + 1) = (n + 1) \gg m = m + 1$
- $8 * 1 - 2 = 6, 6 * 2 - 3 = 9, 9 * 3 - 4 = 23$

Type 2

1. 21 25 18 29 33 18:
- 1,4,7,... +8
 - 2,5,8 ... +8
 - 3,6,9 ... = 18

Type 3

1. 42 40 38 35 33 31 28:

◦ 1,2,4,5 ... -2

◦ 3,6,9 ... -3

2. 8 12 9 13 10 14 11:

◦ 1,3,5 ... $+1$

◦ 2,4,6 ... $+1$

3. 3 5 35 10 12 35 17:

◦ 1,4,7 ... $+7$

◦ 2,5,8 ... $+7$

◦ 3,6,9 ... 35

4. 4 7 26 10 13 20 16:

◦ 1,4,7 ... $+6$

◦ 2,5,8 ... $+6$

◦ 3,6,9 ... -6

5. 16 26 56 36 46 68 56:

◦ 1,2,4,5 ... $+10$

◦ 3,6,9 ... $+12$

6. 17 14 14 11 11 8 8:

◦ 1,2 ... -3

◦ 2,3 ... $=$

◦ 3,4 ... -3

Type 4

1. 664, 332, 340, 170, __, 89:

◦ 1,2 ... $/2$

◦ 2,3 ... $+8$

◦ 3,4 ... $/2$

2. 70, 71, 76, __, 81, 86, 70, 91:

◦ 1,4,7 ... 70

◦ 2,5,8 ... $+10$

◦ 3,6,9 ... $+10$

3. 83, 73, 93, 63, __, 93, 43:

◦ 1,4,7 ... -20

◦ 2,5,8 ... -20

◦ 3,6,9 ... 93

Type 4

1. 4, 7, 25, 10, __, 20, 16, 19:
 - 1,2 ... +3
 - 3,6 ... -5
 - 3,4 ... +3
2. 0.15, 0.3, __, 1.2, 2.4:
 - 1,2,3,4 ... *2

Letter & Symbol Series

Type 1

Positions: In SCD, TEF, S: 1, C: 2, D: 3, T: 4, E: 5, F: 6

1. SCD, TEF, UGH, ____, WKL:
 - 1,4,7 ... +1
 - 2,5,8 ... +2
 - 3,6,9 ... +2
2. B_2CD , ____, BCD_4 , B_5CD , BC_6D :
 - 1,2,3 ... static
 - Subscripts:
 - 1,5,9 ... +1
 - 10,14,18 ... +1
3. FAG, GAF, HAI, IAH:
 - 123,654: reverse
 - 1,7,13 ... +2
4. ZA_5 , Y_4B , XC_6 , W_3D :
 - 1,3,5,7 ... -1
 - 2,4,6,8 ... +1
 - Subscripts:
 - 2,6,10 ... +1
 - 3,7,11 ... -1

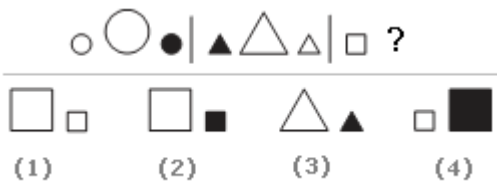
Type 2

1. Image obtained from [here](#)



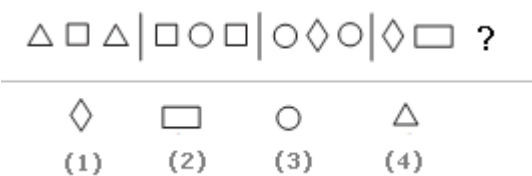
- Directions:
 - L: Left
 - R: Right
 - U: Up
 - D: Down
- RDR, DDD, RUR, UUU ... *pattern repeats*

2. Image obtained from [here](#)



- Filled or not:
 - F: Filled
 - U: Unfilled
- Size:
 - s: small
 - B: big
- suBUsf, sfBUsu, suBUsf, sfBUsu ... *pattern repeats*

3. Image obtained from [here](#)



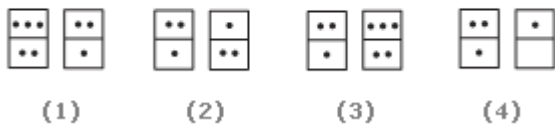
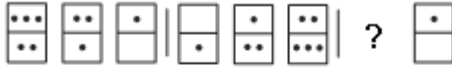
- Shapes:
 - T: Triangle
 - S: Square
 - P: Parallelogram
- TST, SCS, CPC, PSP ...
- The shape in the middle (S in TST) moves to the edges (S in SCS) in the next iteration, and so on.

4. Image obtained from [here](#)



- Sides: 1,2,3,4,5
- 123,454,321 ... *pattern repeats*

5. Image obtained from [here](#)



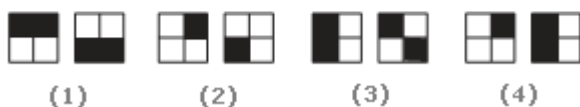
- Number of dots: 1,2,3
- Top Row: 321,123,321,123 ... *pattern repeats*
- Bottom Row: 210,123,210,123 ... *pattern repeats*

6. Image obtained from [here](#)



- Position:
 - i: inside another shape
 - o: outside another shape
- Shapes:
 - C: circle
 - T: triangle
 - S: Square
- CiS TiS, ToS CoS, SiC SiT, SoT SoC ... *pattern repeats*

7. Image obtained from [here](#)



- Number of parts filled: 1,2
- 212,212,212 ... *pattern repeats*

Artificial Language

Type 1

1. Here are some words translated from an artificial language. `gorblflur` means `fan belt`
`pixngorbl` means `ceiling fan` `arthtusl` means `tile roof` Which word could mean
“ceiling tile”?

- `gorbl`: fan
- `pixn`: ceiling
- `arth`: tile
- So, the word is `pixnarth` .

Type 2

1. Here are some words translated from an artificial language. `slar` means `jump` `slary` means
`jumping` `slarend` means `jumped` Which word could mean “playing”?

- `y`: ing
- `end`: ed
- So the word is `clargy` .

Analogies

Type 1

1. yard is a larger measure than inch.
2. quart is a larger measure than ounce.
3. elated is the opposite of dependent.
4. enlightened is the opposite of ignorant.

Type 5

1. dalmation is a type of dog.
2. flinch is a type of bird.
3. spy acts in a clandestine way.
4. accountant acts in a meticulous way.
5. dirge is a song used in a funeral.
6. jingle is a song used in a commercial.
7. asinine means extremely silly.

8. ephemeral and immortal are antonyms.
9. feral and tame are antonyms.

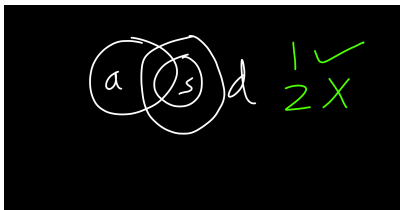
Verbal Reasoning

Syllogism

Type 1

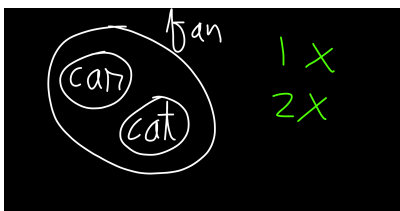
1. Some actors are singers. All the singers are dancers. Conclusion:

- + Some actors are dancers.
- No singer is actor.



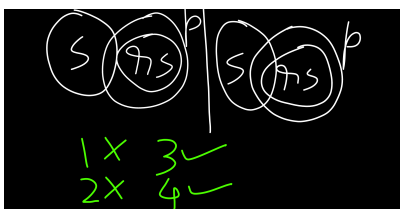
2. All cars are cats. All fans are cats. Conclusion:

- All cars are fans.
- Some fans are cars.



3. All the research scholars are psychologists. Some psychologists are scientists. Conclusion:

- All the research scholars are scientists.
- Some research scholars are scientists.
- + Some scientists are psychologists.
- + Some psychologists are research scholars.



Logical Sequence of Words

1. Newly married Couple, Family, Caste, Clan, Species

- Relation: Belongs to

2. Si Units of measurement:

- Exa (10^{18})
- Peta (10^{15})
- Tera (10^{12})
- Giga (10^9)
- Mega (10^6)
- Kilo (10^3)
- Hecto (10^2)
- Deca (10^1)
- Unit (10^0)
- Deci (10^{-1})
- Centi (10^{-2})
- Milli (10^{-3})
- Micro (10^{-6})
- Nano (10^{-9})
- Pico (10^{-12})