

SSC CGL

8000+ TCS MCQS

Till FEB 2025

Marked Must Revise Questions (MRQ) For Quick Preparations

Chapterwise & Typewise Questions

TIER 1 & 2 EXAMS

Cover

 REASONING

 GENERAL AWARENESS

 MATHS

 ENGLISH

FREE

- 5 Online CBT Tests
- Monthly Current Affairs Magazine (QR Code)



SSC CGL Tier 1 TREND ANALYSIS

| | | Held on: (9 Sep 2024 S - 1) | Held on: (12 Sep 2024 S - 3) | Held on: (18 Sep 2024 S - 2) | Held on: (25 Jul 2023 S - 3) | Held on: (27 Jul 2023 S - 3) | Held on: (1 Dec 2022 S - 1) | Held on: (11 Apr 2022 S - 1) | Held on: (13 Aug 2021 S - 3) | Held on: (3 Mar 2020 S - 3) | Held on: (4 June 2019 S - 2) |
|--|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|
| SECTION (A): GENERAL AWARENESS | | | | | | | | | | | |
| 1 | History | 5 | 4 | 4 | 4 | 5 | 4 | 5 | 3 | 4 | 4 |
| 2 | Geography | 2 | 3 | 4 | 4 | 3 | 2 | 2 | 3 | 1 | 2 |
| 3 | Polity | 2 | 1 | 2 | 2 | 2 | 2 | 1 | 2 | - | 2 |
| 4 | Economics | 2 | 3 | 2 | 1 | 2 | 1 | 2 | 3 | 1 | - |
| 5 | Sports | 1 | 2 | 2 | 3 | 1 | 1 | 2 | 1 | 2 | 1 |
| 6 | Static GK | 5 | 5 | 3 | 7 | 5 | 6 | 6 | 6 | 8 | 6 |
| 7 | Physics | - | 1 | - | 1 | 1 | 2 | - | - | 1 | - |
| 8 | Chemistry | 2 | 1 | 2 | 1 | 2 | 2 | - | 1 | 1 | 3 |
| 9 | Biology | 2 | 1 | 2 | 1 | 1 | 1 | 3 | 1 | 2 | 1 |
| 10 | Current affairs | 4 | 4 | 4 | 1 | 3 | 4 | 4 | 5 | 5 | 6 |
| | Total | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| SECTION (B): GENERAL INTELLIGENCE AND REASONING | | | | | | | | | | | |
| 1 | Analogy | 4 | 5 | 5 | 6 | 7 | 5 | 2 | 2 | 5 | 6 |
| 2 | Classification | 2 | 2 | 3 | 1 | 2 | 2 | 1 | 1 | 3 | 3 |
| 3 | Directions | | | | | | | 1 | | | |
| 4 | Number & Alphabetical Series | 5 | 4 | 4 | 3 | 2 | 3 | 3 | 4 | 2 | 2 |
| 5 | Coding and Decoding | 2 | 2 | 3 | 3 | 1 | 2 | 4 | 3 | 2 | 2 |
| 6 | Logical Sequence | | | | 1 | | 1 | 1 | 1 | 1 | 1 |
| 7 | Arithematic Reasoning | | | | | | | 1 | 1 | 1 | 1 |
| 8 | Mathematical Operations | 2 | 2 | 2 | 2 | 3 | 3 | 2 | 2 | 1 | 1 |
| 9 | Seating Arrangement | | | | | | | | 1 | | |
| 10 | Blood Relationships | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 |
| 11 | Calender | | | | 1 | | | | | | |
| 12 | Syllogism | 2 | 1 | | | 3 | 2 | 1 | 1 | 1 | 1 |
| 13 | Counting of Figure | 1 | 1 | 1 | | | | | | 1 | 1 |
| 14 | Venn Diagram | | 1 | | | | | 1 | 1 | 1 | 1 |
| 15 | Order and Ranking | | | | | | | 1 | | | |
| 16 | Puzzle | | | | | | | | | | |
| 17 | Cube & Dice | 2 | 2 | | 1 | | 1 | 1 | 1 | 1 | 1 |
| 18 | Missing Number | | | | | | | 1 | 1 | 1 | |
| 19 | Paper Cutting and Folding | | 1 | 2 | | | | 1 | 1 | 1 | 1 |
| 20 | Completion of Figure | | | | | | | | | | |
| 21 | Mirror and Water Image | 2 | 1 | 1 | 2 | 3 | 1 | 1 | 1 | 1 | 1 |
| 22 | Embedded Figure | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 23 | Non-Verbal Series | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 1 | 1 |
| | Total | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| SECTION (C): QUANTITATIVE APTITUDE | | | | | | | | | | | |
| 1 | Number system | 1 | 2 | 1 | | 2 | 1 | 1 | 1 | 1 | 1 |
| 2 | BODMAS, Decimals, Fractions | | | 1 | 1 | 1 | | 1 | 2 | 2 | 1 |
| 3 | LCM & HCF | | | | | | 1 | 1 | | | |
| 5 | Average & Ages | 1 | | 2 | | 1 | 1 | 1 | 1 | 1 | 1 |
| 6 | Ratio and Proportion & Partnership | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 |

SSC CGL Tier 1 Cut off 2024 for Junior Statistical Officer

| Categories | UR | SC | ST | OBC | EWS | OH | HH | VH |
|-------------------------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|
| Cut Off Marks | 167.02061 | 143.53855 | 135.23007 | 160.65216 | 161.73406 | 133.35717 | 95.45162 | 122.51903 |
| Candidates Available | 2844 | 3640 | 1935 | 6839 | 2504 | 217 | 210 | 247 |
| Total Candidates: 18436 | | | | | | | | |

SSC CGL Tier 1 Cut off 2024 for Statistical Investigator

| Categories | UR | ST | OBC | EWS | HH | VH | PwD Others |
|------------------------|-----------|-----------|-----------|-----------|----------|----------|------------|
| Cut Off Marks | 170.65672 | 134.49545 | 161.13462 | 163.50858 | 60.66162 | 92.05218 | 40.30795 |
| Candidates Available | 276 | 485 | 1106 | 352 | 213 | 181 | 220 |
| Total Candidates: 2833 | | | | | | | |

SSC CGL Tier 1 Cut off 2024 for all Other Posts

| Categories | UR | SC | ST | OBC | EWS | ESM | OH | HH | VH | PwD Others |
|--------------------------|-----------|-----------|----------|-----------|-----------|----------|-----------|----------|-----------|------------|
| Cut Off Marks | 153.18981 | 126.45554 | 111.8893 | 146.26291 | 142.01963 | 69.92674 | 113.10008 | 64.79156 | 102.97465 | 45.74 |
| Candidates Available | 25814 | 31131 | 16019 | 50191 | 23746 | 11133 | 2093 | 2042 | 1694 | 1377 |
| Total Candidates: 165240 | | | | | | | | | | |

SSC CGL Tier 1 Cut off 2023

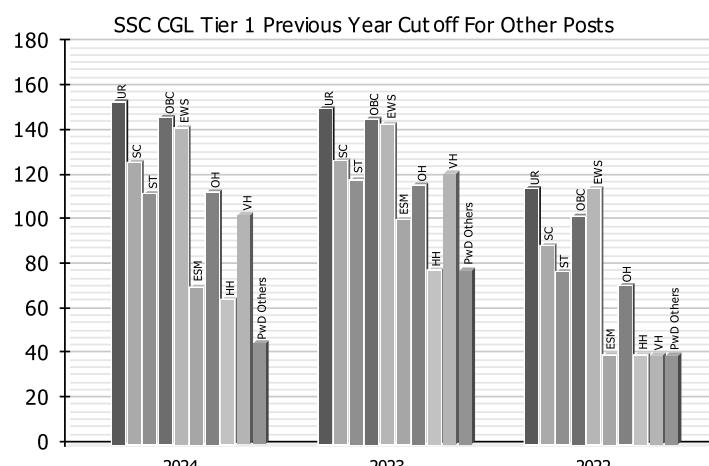
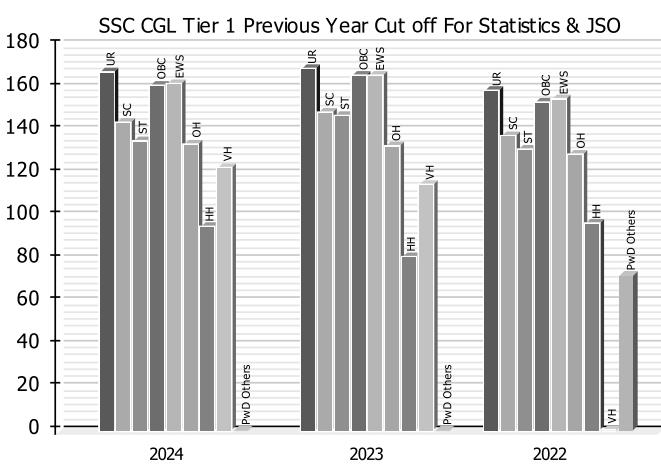
| Categories | UR | SC | ST | OBC | EWS | ESM | OH | HH | VH | PwD Others |
|----------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|------------|
| Finance & Accounts and AAO | 169.67168 | 154.29292 | 148.98918 | 166.28763 | 167.18331 | - | 147.95269 | 126.864 | - | 109.82718 |
| Statistics & JSO | 168.53975 | 148.50911 | 146.65109 | 165.86857 | 166.0675 | - | 132.72381 | 80.99998 | 114.60998 | - |
| Other Posts | 150.04936 | 126.68201 | 118.16655 | 145.93743 | 143.44441 | 100.29326 | 115.98466 | 77.72754 | 121.59662 | 77.72754 |

SSC CGL Tier 1 Previous Year Cut off For Statistics & JSO

| Categories | UR | SC | ST | OBC | EWS | ESM | OH | HH | VH | PwD Others |
|------------|-----------|-----------|-----------|-----------|-----------|-----|-----------|----------|-----------|------------|
| 2024 | 167.02061 | 143.53855 | 135.23007 | 160.65216 | 161.73406 | - | 133.35717 | 95.45162 | 122.51903 | - |
| 2023 | 168.53975 | 148.50911 | 146.65109 | 165.86857 | 166.06750 | - | 132.72381 | 80.99998 | 114.60998 | - |
| 2022 | 158.36 | 137.54 | 131.03 | 152.92 | 154.80 | - | 128.59 | 96.45 | - | 72.79 |

SSC CGL Tier 1 Previous Year Cut off For Other Posts

| Categories | UR | SC | ST | OBC | EWS | ESM | OH | HH | VH | PwD Others |
|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|------------|
| 2024 | 153.18981 | 126.45554 | 111.88930 | 146.26291 | 142.01963 | 69.92674 | 113.10008 | 64.79156 | 102.97465 | 45.74000 |
| 2023 | 150.04936 | 126.68201 | 118.16655 | 145.93743 | 143.44441 | 100.29326 | 115.98466 | 77.72754 | 121.59662 | 77.72754 |
| 2022 | 114.27 | 89.08 | 77.57 | 102.35 | 114.27 | 40 | 70.69 | 40 | 40 | 40 |





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5 ONLINE COMPUTER BASED TESTS



SCAN ME

MONTHLY CURRENT AFFAIRS MAGAZINE



SCAN ME

Analogy

WORD BASED ANALOGY

1. The way, in which the verb ‘deed’ is related to ‘reaction’, _____ is related to ‘inciting’. (CGL 4 June, 2019 S-2)

(a) Foresight (b) Feedback
(c) Response (d) Welcome

2. Select the option that is related to the third word in the same way as the second word is related to the first word. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word)

Phone : Talk :: Television : ? (CGL 01 Dec., 2022 S-1)

(a) Remote (b) View
(c) Read (d) Channel

3. Select the word-pair that best represents a similar relationship to the one expressed in the pair of words given below.

(The words must be considered as meaningful English words and must NOT be related to each other based on the number of letters/number of consonants/vowels in the word) (CGL 9 Sep., 2024 S-2)

Egypt : Nile

(a) South Korea : Mekong
(b) Brazil : Colorado
(c) Russia : Mississippi
(d) Myanmar : Irrawaddy

4. ‘Blossom’ is related to ‘Wither’ in the same way as ‘Stagnate’ is related to ‘_____.’ (The word must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word). (CGL 10 Sep., 2024 S-1)

(a) Stand (b) Rest
(c) Flow (d) Languish

5. Select the option that is related to the third word in the same way as the second word is related to the first word. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word).

[MRQ*] (CGL 10 Sep., 2024 S-1)

Temerity : Shyness :: Pique:?

(a) Resentment (b) Offence
(c) Anger (d) Delight

6. Select the word pair that best represents a similar relationship to the one expressed in the pair of words given below. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word)

Presence : Abundance (CGL 10 Sep., 2024 S-3)

(a) Nourish : Neglect
(b) Abstract : Concrete
(c) Infinite : Cosmic
(d) Concise : Verbose

7. Select the word pair that best represents a similar relationship to the one expressed in the pair of words given below. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word)

Calcium : Osteomalacia (CGL 11 Sep., 2024 S-3)

(a) Lungs : Tuberculosis
(b) Iron : Anaemia
(c) Heart : Cardiovascular
(d) Stomach : Blindness

8. Select the option that is related to the third word in the same way as the second word is related to the first word. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word.).

Acrimony : Humanity :: wield : ?

[MRQ*] (CGL 11 Sep., 2024 S-1)

(a) Appoint (b) Restraint
(c) Forgo (d) Pull

9. ‘Summer’ is related to ‘Season’ in the same way as ‘Cotton’ is related to ‘_____’.

(CGL 11 Sep., 2024 S-1)

(a) Grain (b) Tree (c) Dye (d) Cloth

10. ‘Lavish’ is related to ‘Austere’ in the same way as ‘Prejudiced’ is related to ‘_____.’ (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word.) (CGL 11 Sep., 2024 S-2)

(a) Impartial (b) Compromised
(c) Careful (d) Thoughtful

11. Select the word-pair that best represents a similar relationship to the one expressed in the pair of words given below.

(The words must be considered as meaningful English words and must NOT be related to each other based on the number of letters/number of consonants/vowels in the word)

Virus : Parasite (CGL 12 Sep., 2024 S-1)

(a) Amaltas : Tree
(b) Fungus : Jasmine
(c) Algae : Flower
(d) Fenugreek : Micro organism

12. Select the word-pair that best represents a similar relationship to the one expressed in the pair of words given below.

(The words must be considered as meaningful English words and must NOT be related to each other based on the number of letters/number of consonants/vowels in the word)

Duleep Trophy : Cricket

(CGL 12 Sep., 2024 S-2)

(a) Burdwan Trophy : Polo
(b) Agha Khan Cup : Hockey
(c) Dhyan Chand Trophy : Badminton
(d) Durand Cup : Cricket

13. Select the option that is related to the third word in the same way as the second word is related to the first word. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word)

Frivolous : Big :: Deride : ?

[MRQ*] (CGL 13 Sep., 2024 S-1)

(a) Encourage (b) Taunt
(c) Jeer (d) Detest

14. ‘Ample’ is related to ‘Abundant’ in the same way as ‘Substantial’ is related to ‘_____’.

(The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word.) [MRQ*] (CGL 13 Sep., 2024 S-1)

(a) Considerable (b) Venerable
(c) Meager (d) Scarce

15. Vacant is related to Empty in the same way as 'Crowd' is related to _____.
[MRQ*] (CGL 13 Sep., 2024 S-2)
 (a) Throes (b) Disband
 (c) loner. (d) Throng

16. Select the option that is related to the third word in the same way as the second word is related to the first word. (The words must be considered as meaningful English words and must NOT be related to each other based on the number of letters/number of consonants/vowels in the word)
Magician : Magic :: Dancer : ?
(CGL 13 Sep., 2024 S-3)
 (a) Movie (b) Song
 (c) Theatre (d) Dance

17. 'Magnify' is related to 'Expand' in the same way as 'Curtail' is related to '_____'.
[MRQ*] (CGL 17 Sep., 2024 S-1)
 (a) Restrict (b) Measure
 (c) Big (d) Small

18. 'Noise' is related to 'Silence' in the same way as 'Light' is related to '_____'.
(CGL 17 Sep., 2024 S-2)
 (a) Warmth (b) Radiant
 (c) Brightness (d) Darkness

19. 'Meek' is related to 'Bold' in the same way as 'Spend' is related to '_____'.
 (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word.)
(CGL 17 Sep., 2024 S-3)
 (a) Expend (b) Donate
 (c) Pay (d) Hoard

20. Select the option that is related to the third word in the same way as the second word is related to the first word.
 (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word)
Sugar : Sweet :: Habanero : ?
[MRQ*] (CGL 18 Sep., 2024 S-1)
 (a) Sour (b) Spicy (c) Salty (d) Bitter

21. 'Persist' is related to 'Endure' in the same way as 'stall' is related to '_____'.
 The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word.
(CGL 18 Sep., 2024 S-2)
 (a) Delay (b) Progress
 (c) Complain (d) Surge

22. Select the option that is related to the third word in the same way as the second word is

related to the first word. (The words must be considered as meaningful English words and must NOT be related to each other based on the number of letters/number of consonants/vowels in the word.)
Plant : Pot :: Fish : ? (CGL 25 July., 2023 S-3)
 (a) Mud (b) Sand
 (c) Stone (d) Aquarium

23. Select the option that is related to the third word in the same way as the second word is related to the first word. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word.)
Cow : Milk :: Sheep : ?
(CGL 25 July., 2023 S-3)
 (a) Wool (b) Baby (c) Silk (d) Clothes

24. Select the option that is related to the third word in the same way as the second word is related to the first word. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word)
Vacant : Empty :: Enormous : ?
[MRQ*] (CGL 27 July., 2023 S-2)
 (a) Sufficient (b) Ample
 (c) Huge (d) Small

25. Select the option that is related to the third word in the same way as the second word is related to the first word. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word.)
India: Royal Bengal Tiger :: Australia: ?
(CGL 27 July., 2023 S-3)
 (a) Horse (b) Dragon
 (c) Kangaroo (d) Elephant

26. Select the option that is related to the third word in the same way as the second word is related to the first word. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word.)
Library : Books :: Museum : ?
(CGL 01 Dec., 2022 S-1)
 (a) Building (b) Artefacts
 (c) People (d) Gallery

27. Select the word-pair that best represents a similar relationship to the one expressed in the pair of words given below. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/numbers of consonants/vowels in the word)
Race : Track **(CGL 05 Dec., 2022 S-2)**
 (a) Athletics : Stadium
 (b) Cart : Wheel
 (c) Wrestling : Court
 (d) Exercise : Course

28. Select the option in which the words share the same relationship as that shared by the given pair of words.
Handwriting : Graphology **(CGL 13 Aug., 2021 S-3)**
 (a) Soil : Ornithology
 (b) Earthquakes : Pomology
 (c) Matter : Physics
 (d) Fossils : Pedology

29. Select the option that is related to the third word in the same way as the second word is related to the first word.
Nascent : Young :: Adjunct : ?
(CGL 13 Aug., 2021 S-3)
 (a) Against (b) Supportive
 (c) Functional (d) Rigid

30. Select the option in which the words share the same relationship as that shared by the given pair of words.
Calendar: Date **(CGL 3 March, 2020 S-3)**
 (a) Class: Group (b) Weight: Kilogram
 (c) Food: Vegetarian (d) Clock: Time

31. 'Beverages' is related to 'Tea' in the same way as 'Medicine' is related to '_____.
(CGL 3 March, 2020 S-3)
 (a) Doctor (b) Hospital
 (c) Analgesics (d) Disease

32. From the given options, select the word pair whose two words are related to each other in the same way as the words of the word pair below are related.
Heat: Sun **(CGL 4 June, 2019 S-2)**
 (a) House: Terrace
 (b) Vitamin: Fruit
 (c) Environment: Humidity
 (d) Ride: car

33. Select the option that is related to the third word in the same way as the second word is related to the first word.
 (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word.)
Movie : Director :: Orchestra : ?
(CGL 05 Dec., 2022 S-1)
 (a) Choreographer (b) Conductor
 (c) Dancer (d) Audience

34. Select the word – pair that best represents a similar relationship to the one expressed in the pair of words given below.
 (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/numbers of consonants/vowels in the word)
Race : Track **(CGL 15 Dec., 2022 S-2)**
 (a) Athletics : Stadium
 (b) Cart : Wheel
 (c) Wrestling : Court
 (d) Exercise : Course

35. Select the option that is related to the third word in the same way as the second word is related to the first word.

(The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word.)

Library : Books :: Museum : ?
(CGL 01 Dec., 2022 S-1)

(a) Building (b) Arte facts
(c) People (d) Gallery

36. Select the option that is related to the third word in the same way as the second word is related to the first word. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word)

Phone : Talk :: Television : ?
(CGL 01 Dec., 2022 S-1)

(a) Remote (b) View
(c) Read (d) Channel

37. Select the option that is related to the third word in the same way as the second word is related to the first word. (Shows are to be treated as meaningful English/Hindi shows and the numbers in numbers /The names should not be related to each other on the basis of number of births/ number of rows.)

Panda : Bamboo :: Koala : ?
(CGL 02 Dec., 2022 S-1)

(a) bark (b) Grass
(c) eucalyptus (d) fish

38. Select the option that is related to the third word in the same way as the second word is related to the first word. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word)

Earth : Planet :: Moon : ?
(CGL 01 Dec., 2022 S-3)

(a) Rocket (b) Space
(c) Satellite (d) Orbit

39. Select the option that is related to the third word in the same way as the second word is related to the first word. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word.)

Cloth : Closet :: Gun : ?
(CGL 02 Dec., 2022 S-3)

(a) Armoury (b) Almirah
(c) Bullet (d) Chest

40. Select the word – pair that best represents a similar relationship to the one expressed in the pair of words given below. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word.)

Sparrows : Tree (CGL 02 Dec., 2022 S-3)

(a) Cow : Beach (b) Fish : Water
(c) Owl : Night (d) Rabbit : Sand

NUMBER BASED ANALOGY

41. Select the set in which the numbers are related in the same way as are the numbers of the following sets.

(Note: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits.

E.g. 13 – Operations on 13 such as adding / subtracting / multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

(215, 185, 135) (276, 246, 196)
(CGL Tier-2, 18 Jan., 2025, S-1)

(a) (255, 235, 205) (b) (294, 264, 224)
(c) (269, 229, 199) (d) (238, 208, 158)

42. 17 is related to 159 following a certain logic. Following the same logic, 11 is related to 105. To which of the following is 13 related, following the same logic?

(Note: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /subtracted / multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

(CGL Tier-2, 20 Jan., 2025, S-1)

(a) 116 (b) 103 (c) 123 (d) 109

43. Select the set in which the numbers are related in the same way as are the numbers of the given set.

(Note: Operations should be performed on the whole numbers, without breaking down the number into its constituent digits. E.g. 13 – Operations on 13 such as adding /Subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

(25, 150, 3) (18, 180, 5)
(CGL 25 July., 2023 S-3)

(a) (13, 39, 3) (b) (101, 408, 2)
(c) (52, 728, 7) (d) (61, 601, 5)

44. Select the option that is related to the fifth number in the same way as the second number is related to the first number and the fourth number is related to the third number.

7 : 35 :: 21 : 399 :: 4 : ?
(CGL 25 July., 2023 S-3)

(a) 24 (b) 20 (c) 8 (d) 12

45. Select the option that is related to the fifth number in the same way as the second number is related to the first number and the fourth number is related to the third number.

750 : 5 :: 384 : 4 :: 3072 : ?
(CGL 25 July., 2023 S-3)

(a) 8 (b) 9 (c) 6 (d) 7

46. 31 is related to 152 by certain logic. Following the same logic, 47 is related to 168. To which of the following is 66 related, following the same logic? (Note: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

(CGL 9 Sep., 2024 S-1)
(a) 180 (b) 187 (c) 185 (d) 190

47. Select the option in which the numbers share the same relationship as that shared by the given pair of numbers.

(149, 213), (168, 232)

(Note: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/deleting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

(CGL 9 Sep., 2024 S-1)
(a) (162, 222) (b) (153, 217)
(c) (137, 211) (d) (144, 198)

48. Select the triad in which the numbers are related in the same way as are the numbers of the following triads.

(Note: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g., 13 – Operations on 13 such as adding/deleting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

(2, 3, 17) (5, 2, 21) (CGL 9 Sep., 2024 S-2)

(a) (3, 4, 23) (b) (5, 6, 72)
(c) (2, 5, 42) (d) (1, 4, 17)

49. Select the set in which the numbers are related in the same way as are the numbers of the following sets.

(Note: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

(18, 378, 7) (14, 210, 5)
(CGL 9 Sep., 2024 S-2)

(a) (17, 272, 8) (b) (17, 204, 6)
(c) (23, 230, 5) (d) (15, 405, 9)

50. In the following number-pairs, the second number is obtained by applying certain mathematical operations to the first number. Select the set in which the numbers are related in the same way as are the numbers of the following sets. (Note: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.) (12, 145) (9, 82)

(CGL 9 Sep., 2024 S-3)

(a) (22, 483) (b) (16, 256)
(c) (14, 197) (d) (8, 69)

51. Select the set in which the numbers are related in the same way as are the numbers of the following sets. (Note: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.) (19, 456, 6) (16, 320, 5)

(CGL 9 Sep., 2024 S-3)

(a) (18, 648, 9) (b) (14, 210, 5)
(c) (21, 504, 8) (d) (18, 378, 7)

52. Select the set in which the numbers are related in the same way as are the numbers of the following sets. (34, 47, 62) (119, 142, 167) (Note: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed) (CGL 9 Sep., 2024 S-3)

(a) (64, 78, 99) (b) (48, 65, 82)
(c) (27, 38, 51) (d) (79, 98, 119)

53. 10 is related to 15 following certain logic. Following the same logic, 42 is related to 63.

To which of the following numbers is 22 related, following the same logic?

(Note: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/deleting/multiplying etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

(CGL 10 Sep., 2024 S-1)

(a) 31 (b) 33 (c) 28 (d) 30

54. Select the set in which the numbers are related in the same way as are the numbers of the following set. (CGL 10 Sep., 2024 S-1)
(79, 58, 62) (54, 33, 37)

(Note: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/deleting/multiplying etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)
(a) (59, 33, 43) (b) (66, 45, 49)
(c) (47, 36, 41) (d) (43, 25, 30)

55. Select the set in which the numbers are related in the same way as are the numbers of the following set.

(7, 9, 48) (6, 8, 42)

(Note: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/deleting/multiplying etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

(CGL 10 Sep., 2024 S-1)

(a) (10, 12, 54) (b) (9, 11, 56)
(c) (11, 13, 72) (d) (8, 10, 47)

56. Select the pair in which the numbers are related to each other in the same way as are the numbers in the given pairs.

(Note: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/deleting/multiplying etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

12 : 25, 11 : 23 (CGL 10 Sep., 2024 S-2)

(a) 15 : 29 (b) 18 : 35
(c) 25 : 49 (d) 21 : 43

57. 104 is related to 13 following a certain logic. Following the same logic, 136 is related to 17. To which of the following is 232 related, following the same logic?

(Note: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/deleting/multiplying etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

(CGL 10 Sep., 2024 S-2)

(a) 31 (b) 27 (c) 29 (d) 33

58. Select the set in which the numbers are related in the same way as are the numbers of the following sets.

(Note: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

(25, 300, 6) (19, 342, 9)

(CGL 10 Sep., 2024 S-2)

(a) (24, 600, 5) (b) (14, 364, 7)
(c) (17, 476, 7) (d) (18, 288, 8)

59. Select the set in which the numbers are related in the same way as are the numbers of the following sets.

(173, 246) (148, 196)

(Note: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

[MRQ*] (CGL 10 Sep., 2024 S-3)

(a) (127, 194) (b) (142, 176)
(c) (154, 208) (d) (169, 247)

60. Select the set in which the numbers are related in the same way as are the numbers of the following set.

(121, 93, 214) (115, 87, 202)

(Note: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /subtracting /multiplying etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

(CGL 10 Sep., 2024 S-3)

(a) (135, 117, 259) (b) (97, 112, 209)
(c) (110, 94, 224) (d) (84, 99, 189)

61. 62 is related to 79 following certain logic. Following the same logic, 98 is related to 119. To which of the following numbers is 14 related, following the same logic?

(Note: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

(CGL 10 Sep., 2024 S-3)

(a) 19 (b) 21 (c) 23 (d) 24

62. In the following number-pairs, the second number is obtained by applying certain mathematical operations to the first number. Select the set in which the numbers are related in the same way as are the numbers of the following sets.



(Note: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

(280, 140), (186, 93)

(CGL 11 Sep., 2024 S-1)

(a) (92, 51) (b) (86, 48)
(c) (166, 84) (d) (118, 59)

63. 16 is related to 112 following a certain logic. Following the same logic, 26 is related to 182. To which of the following is 44 related, following the same logic?

(Note: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

(CGL 11 Sep., 2024 S-1)

(a) 310 (b) 302 (c) 308 (d) 312

64. 8 is related to 512 following a certain logic. Following the same logic, 12 is related to 1728. To which of the following is 15 related, following the same logic?

(Note: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

(CGL 11 Sep., 2024 S-1)

(a) 3375 (b) 2725 (c) 3735 (d) 2275

65. Select the set in which the numbers are related in the same way as are the numbers of the following set.

(34, 15, 64) (29, 17, 63)

(Note: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/deleting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

(CGL 11 Sep., 2024 S-2)

(a) (25, 14, 53) (b) (24, 28, 76)
(c) (44, 32, 98) (d) (31, 23, 54)

66. Select the option in which the numbers share the same relationship as that shared by the given pair of numbers.

(Note: Operations should be performed on the whole numbers, without breaking

down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/deleting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

186 : 103 156 : 73

(CGL 11 Sep., 2024 S-2)

(a) 119 : 35 (b) 208 : 127
(c) 95 : 12 (d) 83 : 1

67. Select the triad in which the numbers are related to each other in the same way as the numbers in the following triads.

8-17-35 23-47-95

(Note: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/deleting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

(CGL 11 Sep., 2024 S-2)

(a) 13-29-55 (b) 12-25-51
(c) 9-20-41 (d) 16-32-62

68. Select the set in which the numbers are related in the same way as are the numbers of the following set.

(66, 57, 48) (94, 85, 76)

(Note: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/deleting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

(CGL 11 Sep., 2024 S-3)

(a) (85, 77, 64) (b) (79, 70, 59)
(c) (81, 72, 63) (d) (98, 90, 83)

69. Select the option in which the numbers share the same relationship as that shared by the given pair of numbers.

(Note: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/deleting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

17 : 253 19 : 271

(CGL 11 Sep., 2024 S-3)

(a) 21 : 289 (b) 23 : 207
(c) 32 : 387 (d) 31 : 400

70. Two sets of numbers are given below. In each set of numbers, certain mathematical operation(s) on the first number result(s) in the second number. Similarly, certain

mathematical operation(s) on the second number result(s) in the third number and so on. Which of the given options follows the same set of operations as in the given sets?

(Note: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding/subtracting/multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

14 – 196 – 186 – 172; 15 – 225 – 215 – 200

(CGL 11 Sep., 2024 S-3)

(a) 3 – 9 – 19 – 14 (b) 9 – 81 – 71 – 62
(c) 6 – 36 – 26 – 22 (d) 8 – 64 – 54 – 40

71. Two sets of numbers are given below. In each set of numbers, certain mathematical operation(s) on the first number result(s) in the second number. Similarly, certain mathematical operation(s) on the second number result(s) in the third number and so on. Which of the given options follows the same set of operations as in the given sets?

(Note: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding/subtracting/multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

18 – 36 – 72 – 107; 15 – 30 – 60 – 95

(CGL 12 Sep., 2024 S-1)

(a) 30 – 60 – 90 – 115
(b) 25 – 50 – 100 – 125
(c) 22 – 44 – 88 – 123
(d) 11 – 22 – 66 – 101

72. $\left[\frac{24}{7}\right]$ is related to $\left[\frac{12}{7}\right]$ following a certain

logic. Following the same logic, $\left[\frac{11}{15}\right]$ is

related to $\left[\frac{11}{30}\right]$. To which of the following

is $\left[\frac{9}{13}\right]$ related, following the same logic?

(Note: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting/ multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

(CGL 12 Sep., 2024 S-1)

(a) $\left[\frac{15}{26}\right]$ (b) $\left[\frac{9}{26}\right]$
(c) $\left[\frac{9}{39}\right]$ (d) $\left[\frac{10}{27}\right]$

73. Select the set in which the numbers are related in the same way as are the numbers of the given sets.
(213, 157), (185, 129)
(Note: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g., 13 – Operations on 13 such as adding /deleting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)
[MRQ³](CGL 12 Sep., 2024 S-1)
(a) (192, 152) (b) (164, 108)
(c) (171, 123) (d) (189, 141)

74. Two sets of numbers are given below. In each set of numbers, certain mathematical operation(s) on the first number result(s) in the second number. Similarly, certain mathematical operation(s) on the second number result(s) in the third number and so on. Which of the given options follows the same set of operations as in the given sets?
(Note: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding/subtracting/multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)
10 – 12 – 8 – 15; 12 – 14 – 10 – 19
(CGL 12 Sep., 2024 S-2)
(a) 8 – 6 – 10 – 18 (b) 11 – 13 – 9 – 17
(c) 6 – 8 – 12 – 16 (d) 15 – 13 – 9 – 19

75. Select the set in which the numbers are related in the same way as are the numbers of the following set.
(11, 16.5, 22) (14.5, 20, 25.5)
(Note: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/deleting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)
(CGL 12 Sep., 2024 S-2)
(a) (14, 18.5, 23.5) (b) (21.5, 25, 31.5)
(c) (24.5, 30, 36.5) (d) (18, 23.5, 29)

76. 346 is related to 245 by certain logic. Following the same logic, 580 is related to 479. To which of the following is 613 related, following the same logic?
(Note: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/deleting /multiplying etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)
(CGL 12 Sep., 2024 S-2)
(a) 512 (b) 460 (c) 720 (d) 630

77. Select the set in which the numbers are related in the same way as are the numbers of the following set.
3 – 5 – 30 2 – 4 – 16
(Note: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)
(CGL 12 Sep., 2024 S-3)
(a) 5 – 5 – 45 (b) 6 – 6 – 72
(c) 9 – 5 – 27 (d) 9 – 4 – 7

78. Select the set in which the numbers are related in the same way as are the numbers of the following set.
(34, 17, 27)
(42, 21, 31)
(Note: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)
(CGL 12 Sep., 2024 S-3)
(a) (38, 16, 36) (b) (54, 27, 37)
(c) (46, 23, 35) (d) (64, 34, 54)

79. 44 is related to 1936 by certain logic. Following the same logic, 59 is related to 3481. To which of the following is 77 related, following the same logic?
(Note: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/deleting/ multiplying etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)
(CGL 12 Sep., 2024 S-3)
(a) 5824 (b) 5929 (c) 7642 (d) 4469

80. Select the pair in which the numbers are related to each other in the same way as are the numbers in the given pairs.
(Note: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/deleting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)
3 : 25 4 : 62
(CGL 13 Sep., 2024 S-1)
(a) 5 : 123 (b) 6 : 218
(c) 7 : 345 (d) 9 : 731

81. Select the set in which the numbers are related in the same way as are the numbers of the following sets.
(Note: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/deleting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)
(27, 405, 3) (23, 690, 6)
(CGL 13 Sep., 2024 S-1)
(a) (14, 364, 7) (b) (16, 448, 7)
(c) (22, 616, 7) (d) (24, 600, 5)

82. Select the set in which the numbers are related in the same way as are the numbers of the following set.
7 – 14 – 23 4 – 11 – 20
(Note: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)
(CGL 13 Sep., 2024 S-1)
(a) 7 – 15 – 22 (b) 5 – 12 – 21
(c) 9 – 12 – 22 (d) 15 – 30 – 20

83. Select the triad in which the numbers are related to each other in the same way as the numbers in the following triads.
16-40-100 8-20-50
(Note: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/deleting/multiplying etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)
(CGL 13 Sep., 2024 S-2)
(a) 18-50-110 (b) 12-30-120
(c) 24-60-150 (d) 22-74-185

84. 16 is related to 30 following a certain logic. Following the same logic, 81 is related to 110. To which of the following is 49 related, following the same logic?
(Note: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/deleting/multiplying etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)
(CGL 13 Sep., 2024 S-2)
(a) 60 (b) 64 (c) 90 (d) 72

85. Select the triad in which the numbers are related to each other in the same way as are the numbers of the given triads.

(148, 126, 104), (98, 76, 54)

(Note: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/deleting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

[MRQ*] (CGL 13 Sep., 2024 S-2)

(a) (149, 137, 115) (b) (157, 135, 113)
(c) (128, 104, 82) (d) (134, 102, 90)

86. 13 is related to 117 following a certain logic. Following the same logic, 23 is related to 207. To which of the following is 51 related, following the same logic?

(Note: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

[MRQ*] (CGL 13 Sep., 2024 S-3)

(a) 350 (b) 459 (c) 359 (d) 450

87. Select the option in which the numbers share the same relationship as that shared by the given pair of numbers.

(Note: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/deleting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

63 : 441 51 : 357

[MRQ*] (CGL 13 Sep., 2024 S-3)

(a) 68 : 340 (b) 54 : 324
(c) 89 : 96 (d) 39 : 273

88. Two sets of numbers are given below. In each set of numbers, certain mathematical operation(s) on the first number result(s) in the second number. Similarly, certain mathematical operation(s) on the second number result(s) in the third number and so on. Which of the given options follows the same set of operations as in the given sets?

(Note: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding/subtracting/multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

9 – 27 – 31 – 36; 10 – 30 – 34 – 39

(CGL 13 Sep., 2024 S-3)

(a) 5 – 15 – 19 – 24 (b) 8 – 24 – 28 – 35
(c) 11 – 33 – 38 – 44 (d) 15 – 45 – 50 – 55

89. 30 is related to 41 following certain logic. Following the same logic, 14 is related to 21. To which of the following numbers is 54 related, following the same logic?

(Note: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/deleting/multiplying etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

(CGL 17 Sep., 2024 S-1)

(a) 69 (b) 63 (c) 53 (d) 59

90. 189 is related to 21 following a certain logic. Following the same logic, 234 is related to 26. To which of the following is 468 related, following the same logic?

(Note: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/deleting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

(CGL 17 Sep., 2024 S-1)

(a) 58 (b) 48 (c) 52 (d) 54

91. Select the set in which the numbers are related in the same way as are the numbers of the given sets.

(429, 514), (688, 773)

(Note: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g., 13 – Operations on 13 such as adding/deleting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

(CGL 17 Sep., 2024 S-1)

(a) (407, 512) (b) (546, 631)
(c) (319, 399) (d) (396, 491)

92. 34 is related to 191 by certain logic. Following the same logic, 56 is related to 301. To which of the following is 63 related, following the same logic?

(Note: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/deleting/multiplying etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

(CGL 17 Sep., 2024 S-2)

(a) 340 (b) 386 (c) 336 (d) 319

93. 27 is related to 119 following a certain logic. Following the same logic, 33 is related to 143. To which of the following is 42 related, following the same logic?

(Note: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/deleting/multiplying etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

(CGL 17 Sep., 2024 S-2)

(a) 162 (b) 153 (c) 179 (d) 188

94. Select the option in which the numbers share the same relationship as that shared by the given pair of numbers.

(Note: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/deleting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

8 : 79 6 : 51 (CGL 17 Sep., 2024 S-2)

(a) 7 : 62 (b) 4 : 32
(c) 9 : 96 (d) 5 : 39

95. Select the option in which the numbers share the same relationship as that shared by the given pair of numbers.

(Note: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/deleting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

17 : 67 21 : 79 (CGL 17 Sep., 2024 S-3)

(a) 34 : 118 (b) 23 : 69
(c) 33 : 110 (d) 42 : 100

96. Select the triad in which the numbers are related in the same way as are the numbers of the given triads.

(54, 65, 76), (48, 59, 70)

(Note: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/deleting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

(CGL 17 Sep., 2024 S-3)

(a) (42, 57, 68) (b) (27, 38, 50)
(c) (38, 49, 60) (d) (31, 41, 53)

97. Select the set in which the numbers are related in the same way as are the numbers of the following sets.

(Note: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/deleting/multiplying etc. to 13 can

200. Select the option that is related to the third term in the same way as the second term is related to the first term.

PRACTISE : ACEIPRST :: TECHNOLOGY : ? (CGL 18 Apr., 2022 S-3)

- (a) HCETONYGLO
- (b) CEGHLNOPTY
- (c) CEGHLNOOTY
- (d) CEGLHOONTY

201. Select the option that is related to the third letter cluster in the same way as the second letter – cluster is related to the first letter – cluster.

LGS : PLY :: MKB : ? (CGL 19 Apr., 2022 S-3)

- (a) QPH
- (b) QOF
- (c) RQG
- (d) PQG

202. Select the option that is related to the fifth letter – cluster in the same way as the second letter – cluster is related to the first letter – cluster and the fourth letter-cluster is related to the third letter – cluster.

GAIN : HBKP :: ACHE : BDJG :: CAKE : ? (CGL 05 Dec., 2022 S-1)

- (a) DBNH
- (b) DBMH
- (c) DBNG
- (d) DBMG

203. Select the option that is related to the fifth letter cluster in the same way as the second letter – cluster is related to the first letter – cluster and the fourth letter – cluster is related to the third letter – cluster.

HERO : JGPM :: FLOW : HNMU :: DIAL : ? (CGL 02 Dec., 2022 S-1)

- (a) KYFJ
- (b) JFYK
- (c) FLIJ
- (d) FKYJ

204. Select the option that is related to the fifth letter cluster in the same way as the second letter – cluster is related to the first letter – cluster and the fourth letter cluster is related to the third letter – cluster.

GAVE : AGEV :: KEPT : EKTP :: ACID : ? (CGL 01 Dec., 2022 S-2)

- (a) CIAD
- (b) CAID
- (c) ACDI
- (d) CADI

205. Select the option that is related to the fifth letter cluster in the same way as the second letter – cluster is related to the first letter – cluster and the fourth letter cluster is related to the third letter – cluster.

JUMPED : LWORGF :: QUICKS : SWKEMU :: FUZING : ? (CGL 01 Dec., 2022 S-2)

- (a) HKWIPB
- (b) IPKBWH
- (c) HWBKPI
- (d) HWKBPI

206. Select the option that is related to the fifth letter-cluster in the same way as the second letter – cluster is related to the first letter – cluster and the fourth letter cluster is related to the third letter – cluster.

ROSE : IVQS :: SUIT : XLWT :: TIME : ? (CGL 01 Dec., 2022 S-3)

- (a) IPKU
- (b) IPKV
- (c) JPKU
- (d) JPKV

207. Select the option that is related to the fifth letter cluster in the same way as the second letter – cluster is related to the first letter – cluster and the fourth letter cluster is related to the third letter – cluster.

BEAR : DFCS :: FEEL : HFGM :: MANY : ? (CGL 01 Dec., 2022 S-4)

- (a) OBPY
- (b) OCPZ
- (c) OBPZ
- (d) OBQZ

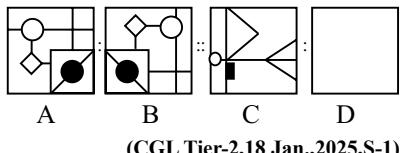
208. Select the option that is related to the fifth letter cluster in the same way as the second letter – cluster is related to the first letter – cluster and the fourth letter cluster is related to the third letter – cluster.

LAMB : DPEQ :: MOTH : JWSR :: NERD : ? (CGL 01 Dec., 2022 S-4)

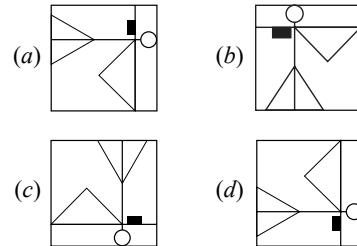
- (a) FVJS
- (b) FUJS
- (c) FVIS
- (d) FUJS

IMAGE BASED

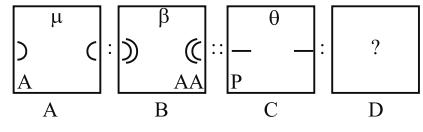
209. Figure A is related to B in a certain pattern. Following the same pattern, figure C is related to D. Study the pattern and select the figure which should be in place of D.



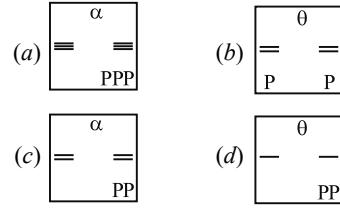
(CGL Tier-2, 18 Jan., 2025, S-1)



210. Figure A is related to B in a certain pattern. Following the same pattern, figure C is related to D. Study the pattern and select the figure which should be placed in place of D.



(CGL Tier-2, 20 Jan., 2025, S-1)



Answer Keys

| | | | | | | | | | |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 1. (c) | 2. (b) | 3. (d) | 4. (c) | 5. (d) | 6. (c) | 7. (b) | 8. (c) | 9. (d) | 10. (a) |
| 11. (a) | 12. (b) | 13. (a) | 14. (a) | 15. (d) | 16. (d) | 17. (a) | 18. (d) | 19. (d) | 20. (b) |
| 21. (a) | 22. (d) | 23. (a) | 24. (c) | 25. (c) | 26. (b) | 27. (a) | 28. (c) | 29. (b) | 30. (d) |
| 31. (c) | 32. (b) | 33. (b) | 34. (a) | 35. (b) | 36. (b) | 37. (c) | 38. (c) | 39. (a) | 40. (b) |
| 41. (d) | 42. (c) | 43. (c) | 44. (c) | 45. (a) | 46. (b) | 47. (b) | 48. (a) | 49. (d) | 50. (c) |
| 51. (a) | 52. (d) | 53. (b) | 54. (b) | 55. (c) | 56. (d) | 57. (c) | 58. (d) | 59. (c) | 60. (b) |
| 61. (c) | 62. (d) | 63. (c) | 64. (a) | 65. (a) | 66. (c) | 67. (b) | 68. (c) | 69. (a) | 70. (b) |
| 71. (c) | 72. (b) | 73. (b) | 74. (b) | 75. (d) | 76. (a) | 77. (b) | 78. (b) | 79. (b) | 80. (a) |
| 81. (d) | 82. (b) | 83. (c) | 84. (d) | 85. (b) | 86. (b) | 87. (d) | 88. (a) | 89. (a) | 90. (c) |
| 91. (b) | 92. (c) | 93. (c) | 94. (c) | 95. (a) | 96. (c) | 97. (d) | 98. (a) | 99. (a) | 100. (c) |
| 101. (d) | 102. (b) | 103. (a) | 104. (c) | 105. (a) | 106. (c) | 107. (a) | 108. (b) | 109. (b) | 110. (b) |

| | | | | | | | | | |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 111. (d) | 112. (d) | 113. (d) | 114. (b) | 115. (b) | 116. (c) | 117. (d) | 118. (d) | 119. (c) | 120. (d) |
| 121. (b) | 122. (a) | 123. (d) | 124. (b) | 125. (d) | 126. (a) | 127. (a) | 128. (a) | 129. (a) | 130. (c) |
| 131. (c) | 132. (c) | 133. (d) | 134. (c) | 135. (a) | 136. (b) | 137. (c) | 138. (d) | 139. (c) | 140. (d) |
| 141. (b) | 142. (b) | 143. (d) | 144. (b) | 145. (a) | 146. (d) | 147. (a) | 148. (b) | 149. (b) | 150. (c) |
| 151. (b) | 152. (d) | 153. (b) | 154. (d) | 155. (c) | 156. (d) | 157. (c) | 158. (b) | 159. (b) | 160. (c) |
| 161. (b) | 162. (c) | 163. (b) | 164. (c) | 165. (b) | 166. (a) | 167. (b) | 168. (c) | 169. (b) | 170. (d) |
| 171. (b) | 172. (c) | 173. (a) | 174. (b) | 175. (b) | 176. (b) | 177. (c) | 178. (c) | 179. (d) | 180. (d) |
| 181. (b) | 182. (a) | 183. (c) | 184. (c) | 185. (a) | 186. (b) | 187. (b) | 188. (a) | 189. (a) | 190. (d) |
| 191. (b) | 192. (a) | 193. (b) | 194. (a) | 195. (c) | 196. (a) | 197. (d) | 198. (b) | 199. (b) | 200. (c) |
| 201. (a) | 202. (d) | 203. (d) | 204. (d) | 205. (c) | 206. (a) | 207. (c) | 208. (d) | 209. (b) | 210. (c) |

Solutions with Detailed Explanations

1. (c) Deed – reaction
Response – inciting

2. (b) Phone is a device by which one can talk.
Similarly,

Television is a device by which can view.

3. (d) Egypt : Nile → Nile is the river of Egypt.
Similarly,

Myanmar : Irrawaddy → Irrawaddy is the river of Myanmar.

4. (c) Blossom is antonyms of wither.
Similarly,
Stagnate is antonyms to flow.

5. (d) As, Temerity is the opposite of shyness.
Similarly, Pique is the opposite of Delight.

6. (c) Presence: Abundance ⇒ The relationship here is degree-based. Both word indicate something that exist, but abundance implies a much larger of existence. Similarly, ‘infinite’ refers to something immeasurably large, and ‘cosmic’ refers to something vast.

7. (b) Logic: Deficiency of calcium lead to the condition Osteomalacia.
Similarly, Deficiency of Iron lead to the condition of Anaemia.

8. (c) Acrimony is antonym of humanity.
Similarly,
Wield is antonym of forgo.

9. (d) As, Summer is one of the seasons.
Similarly, Cotton is one of material of cloth.

10. (a) As, Lavish is antonym of Austere.
Similarly, Prejudiced is antonym of Impartial.

11. (a) As a virus is a specific type of parasite.
Similarly, Amaltas is a specific type of tree.

12. (b) As, cricket players get Duleep trophy as an award.
Similarly, Hockey player gets Agha Khan cup as an award

13. (a) As, frivulous is opposite of Big, meaning small or unimportant. Similarly deride is antonym of encourage meaning demotivated.

14. (a) As ample is synonyms of abundant.
Similarly, substantial is synonyms of considerable.

15. (d) As vacant is the synonym of Empty.
Similarly, Crowd is the synonym of Throng.

16. (d) As Magic is done by the magician.
Similarly, Dance is done by the Dancer.

17. (a) As Magnify is the synonym of Expand.
Similarly, Curtail is the synonym of Restrict.

18. (d) As Noise is the antonym of Silence.
Similarly, Light is the antonym of Darkness.

19. (d) As Meek is an antonym of Bold.
Similarly, Spend is an antonym of Hoard.

20. (b) As, Sugar is a synonym of Sweet.
Similarly, Habanero is a synonym of Spicy.

21. (a) Persist is a synonyms of Endure.
Similarly, Stall is a synonyms of Delay

22. (d) As, we put plants in a pot to grow and nurture. Similarly, we put Fishes in an aquarium to grow and nurture.

23. (a) As, cow produces Milk, Similarly, Sheep produces Wool.

24. (c) As, Empty is the synonym of Vacant.
Similarly, Huge is the synonym of Enormous.

25. (c) As, Tiger is the national animal of India.
Similarly, Kangaroo is the national animal of Australia.

26. (b) Given, “Library” is related to ‘Books’
Here we find books in the library similarly, we find artefacts in the museum.

27. (a) As,
Race are run on tracks.
Similarly,
athletic are performed in stadium.

28. (c) As,
Handwriting: Graphology — The study of handwriting is called Graphology. Similarly,
Matter: Physics — The study of matter is called Physics.

29. (b) The logic is:
Nascent : Young → Nascent and Young are synonyms of each other.

Similarly, Adjunct : ? → Adjunct and Supportive are synonyms of each other. Hence, ‘Supportive’ is the correct answer.

30. (d) Calendar: Date: Calendar is a chart of pages showing the days, weeks, and months of a particular year.

Similarly,
Clock: Time: Clock is a device showing the time of a particular day.

31. (c) Beverages: Tea-Tea is a hot beverage made from dried crushed leaves of the tea plant in boiling water.

Similarly,
Medicine: Analgesics is a group of drugs that are used as painkillers.

32. (b) As, sun is the source of heat.
Likewise, fruit is the source of vitamin.

33. (b) As, a movie is created by a director.
Similarly, an orchestra is directed by a conductor.

34. (a) As, races are run on tracks. Similarly, athletics are combine performed in stadiums.

35. (b) As, library is the place where Books are kept. Similarly, museum is the place where Arte facts are kept.

36. (b) As, a phone is a device by which we can Talk. Similarly, television is a device by which we can View.

37. (c) As, pandas relies on bamboo for food.
Similarly, a koala depends on eucalyptus.

38. (c) As, Earth is a type of planet. Similarly a moon is a type of satellite.

39. (a) As, cloths are kept in a closet. Similarly, gun are stored in an armoury.

40. (b) As, sparrows lives in a tree. Similarly, fish lives in water.

41. (d) Logic: First Number – 30 = Second Number, Second Number – 50 = Third Number
As, (215, 185, 135)
 $\Rightarrow 215 - 30 = 185, 185 - 50 = 135$
And, (276, 246, 196)
 $\Rightarrow 276 - 30 = 246, 246 - 50 = 196$
Similarly, (238, 208, 158)
 $\Rightarrow 238 - 30 = 208, 208 - 50 = 158$

42. (c) Logic is : First number \times 9 + 6 = Second number
As, 17 : 159
 $\Rightarrow 17 \times 9 + 6 = 153 + 6 = 159.$
And, 11 : 105 $\Rightarrow 11 \times 9 + 6 = 99 + 6 = 105.$
Similarly, 13 : ? $\Rightarrow 13 \times 9 + 6 = 117 + 6 = 123.$

43. (c) Logic: If (a, b, c) then, $(b \div a) \div 2 = c$
As, (25, 150, 3) $\Rightarrow (150 \div 25) \div 2 = 6 \div 2 = 3$
And, (18, 180, 5) $\Rightarrow (180 \div 18) \div 2 = 10 \div 2 = 5$
Similarly, (52, 728, 7) $\Rightarrow (728 \div 52) \div 2 = 14 \div 2 = 7$

44. (c) Logic: If $a : b$ then $(a)^2 - 2 \times a = b$
As, 7 : 35 $\Rightarrow (7)^2 - 2 \times 7 = 49 - 14 = 35$
And, 21 : 399 $\Rightarrow (21)^2 - 2 \times 21 = 441 - 42 = 399$
Similarly, 4 : ? $\Rightarrow (4)^2 - 2 \times 4 = 16 - 8 = 8$

45. (a) Logic: If $a : b$, then
 $(b^3) \times 6 = a$
As, 750 : 5
 $= (5)^3 \times 6 = 125 \times 6 = 750$
And, 384 : 4
 $= (4)^3 \times 6 = 64 \times 6 = 384$
Similarly,
3072 : ?
 $3072 \div 6 = 512 = (8)^3$
thus, ? = 8

46. (b) Logic: If a related to b then, $a + 11^2 = b$
As, 31 related to 152
 $31 + 11^2 = 31 + 121 = 152$
And,
47 related to 168
 $47 + 11^2 = 47 + 121 = 168$
Similarly,
66 related to?
 $66 + 11^2 = 66 + 121 = 187$

47. (b) Logic: If (a, b) then, $a + 64 = b$
As, (149, 213) $\Rightarrow 149 + 64 = 213$
And, (168, 232) $\Rightarrow 168 + 64 = 232$
Similarly, (153, 217) $\Rightarrow 153 + 64 = 217$

48. (a) (2, 3, 17) $\Rightarrow 2 \times 3 + 11 = 6 + 11 = 17$
(5, 2, 21) $\Rightarrow 5 \times 2 + 11 = 10 + 11 = 21$
Similarly, (3, 4, 23) $\Rightarrow 3 \times 4 + 11 = 12 + 11 = 23$

49. (d) (18, 378, 7) $\Rightarrow 18 \times 7 \times 3 = 378$
(14, 210, 5) $\Rightarrow 14 \times 5 \times 3 = 210$
Similarly,
(15, 405, 9) $\Rightarrow 15 \times 9 \times 3 = 405$

50. (c) (12, 145) $\rightarrow 12^2 + 1 = 144 + 1 = 145.$
(9, 82) $\rightarrow 9^2 + 1 = 81 + 1 = 82.$
Then, (14, 197) $\rightarrow 14^2 + 1 = 196 + 1$

51. (a) (19, 456, 6) $\Rightarrow 19 \times 6 \times 4 = 456$
(16, 320, 5) $\Rightarrow 16 \times 5 \times 4 = 320$
Similarly, (18, 648, 9) $\Rightarrow 18 \times 9 \times 4 = 648$

52. (d) Logic: If (a, b, c) , then $[(b - a) + 2] + b = a$
As, (34, 47, 62) $\Rightarrow [(47 - 34) + 2] + 47 = (13 + 2) + 47 = 62$
And, (119, 142, 167) $\Rightarrow [(142 - 119 + 2) + 142 = (23 + 2) + 142 = 167$
Similarly, (79, 98, 119) $\Rightarrow [(98 - 79) + 2] + 98 = 19 + 2 + 98 = 119$

53. (b) Logic: $10 + \frac{10}{2} = 10 + 5 = 15$
And, $42 + \frac{42}{2} = 42 + 21 = 63$
Similarly, $22 + \frac{22}{2} = 22 + 11 = 33.$

54. (b) (79, 58, 62) $\Rightarrow (79 - 58) = 21, (62 - 58) = 4$
and, (54, 33, 37) $\Rightarrow (54 - 33) = 21, (37 - 33) = 4$
Similarly, (66, 45, 49) $\Rightarrow (66 - 45) = 21, (49 - 45) = 4$

55. (c) (7, 9, 48) $\Rightarrow (7 + 9) \times 3 = 48$
(6, 8, 42) $\Rightarrow (6 + 8) \times 3 = 42$
Similarly, (11, 13, 72) $\Rightarrow (11 + 13) \times 3 = 72$

56. (d) Logic: $12 \times 2 = 24 + 1 = 25$
and $11 \times 2 = 22 + 1 = 23$
Similarly,
 $21 \times 2 = 42 + 1 = 43$

57. (c) Logic: $104 \div 8 = 13$
and $136 \div 8 = 17$
Similarly, $232 \div 8 = 29$

58. (d) (25, 300, 6) $\Rightarrow 25 \times 6 \times 2 = 300$
(19, 342, 9) $\Rightarrow 19 \times 9 \times 2 = 342$
Similarly,
(18, 288, 8) $\Rightarrow 18 \times 8 \times 2 = 288$

59. (c) As, (173, 246) $\Rightarrow 173 + 73 = 246$
and, (148, 196) $\Rightarrow 148 + 48 = 196$
Similarly,
(154, 208) $\Rightarrow 154 + 54 = 208.$

60. (b) As, (121, 93, 214) $\Rightarrow 121 + 93 = 214$
And, (115, 87, 202) $\Rightarrow 115 + 87 = 202,$
Similarly, (97, 112, 209)
 $\Rightarrow 97 + 112 = 209.$

61. (c) Logic: $62 + 2 = 64 = 8^2$
 $79 + 2 = 81 = 9^2$ $\swarrow^{(9-8)=1}$
and $98 + 2 = 100 = 10^2$ $\searrow^{(11-10)=1}$
 $119 + 2 = 121 = 11^2$
Similarly, $14 + 2 = 16 = 4^2$ $\swarrow^{(5-4)=1}$
 $23 + 2 = 5^2$

62. (d) Logic: If (a, b) , then $\frac{a}{2} = b$
As, (280, 140) $\Rightarrow \frac{280}{2} = 140$
And, (186, 93) $\Rightarrow \frac{186}{2} = 93$

Similarly, (118, 59) $\Rightarrow \frac{118}{2} = 59$

63. (c) Logic: First letter $\times 7$ = Second number.
As, $16 \times 7 = 112$
And $26 \times 7 = 182$
Similarly, $44 \times 7 = 308.$

64. (a) Logic: $(1st\ number)^3 = 2nd\ number.$
As, $8^3 = 512$, And $12^3 = 1728$
Similarly, $15^3 = 3375$

65. (a) Logic = If (a, b, c) then $(c - a) \div 2 = b$
As, (34, 15, 64) $\Rightarrow (64 - 34) \div 2 = 15$
And, (29, 17, 63) $\Rightarrow (63 - 29) \div 2 = 17$
Similarly, (25, 14, 53) $\Rightarrow (53 - 25) \div 2 = 28 \div 2 = 14.$

66. (c) Logic: If $a - b$ if $a - 3 = b$
As, $186 - 83 = 103$
And, $156 - 83 = 73$
Similarly $95 - 83 = 12.$

67. (b) Logic: If $a - b - c$ then, $(a \times 2) + 1 = b, b \times 2 + 1 = c$
As, $8 \times 2 + 1 = 17, 17 \times 2 + 1 = 35$
And, $23 \times 2 + 1 = 47, 47 \times 2 + 1 = 95$
Similarly, $12 \times 2 + 1 = 25, 25 \times 2 + 1 = 51$

68. (c) As, (66, 57, 48) $\Rightarrow (66 + 48) \div 2 = 57$
and, (94, 85, 76) $\Rightarrow (94 + 76) \div 2 = 85$
Similarly,
(81, 72, 63) $\Rightarrow (81 + 63) \div 2 = 72$

69. (a) As, $17 \times 9 + 100 = 253$
and $19 \times 9 + 100 = 271$
Similarly, $21 \times 9 + 100 = 289.$

70. (b) $14 \xrightarrow{+2} 196 \xrightarrow{-6} 186 \xrightarrow{-4} 172$
 $15 \xrightarrow{+2} 225 \xrightarrow{-10} 215 \xrightarrow{-15} 200$
 $9 \xrightarrow{+2} 81 \xrightarrow{-10} 71 \xrightarrow{-9} 62$

71. (c) As, $18 \xrightarrow{\times 2} 36 \xrightarrow{\times 2} 72 \xrightarrow{+35} 107$
and, $15 \xrightarrow{\times 2} 30 \xrightarrow{\times 2} 60 \xrightarrow{+35} 95$
Similarly,
 $22 \xrightarrow{\times 2} 44 \xrightarrow{\times 2} 88 \xrightarrow{+35} 123$

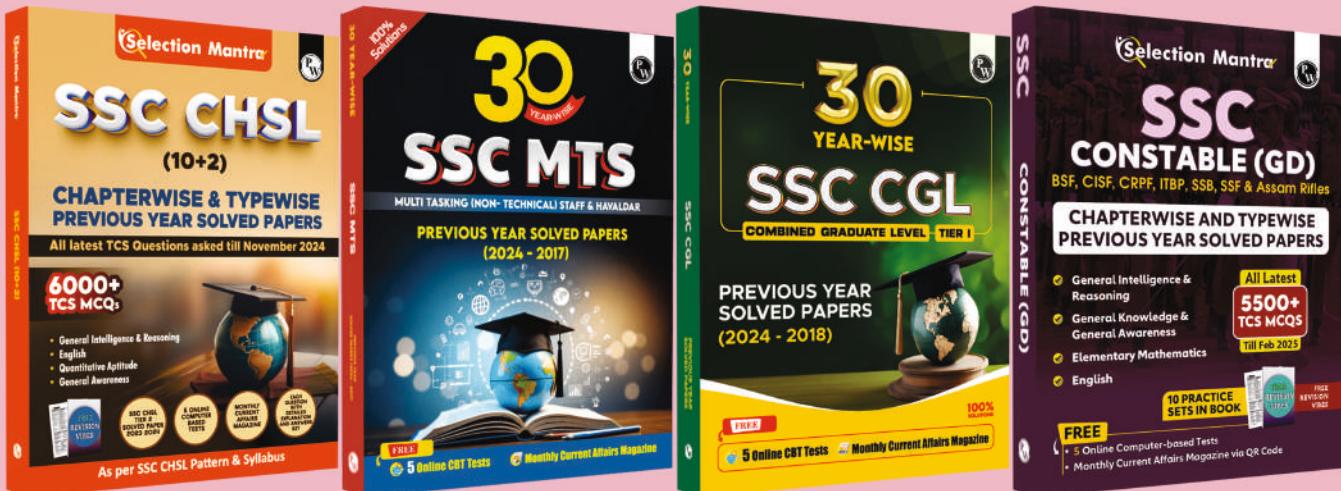
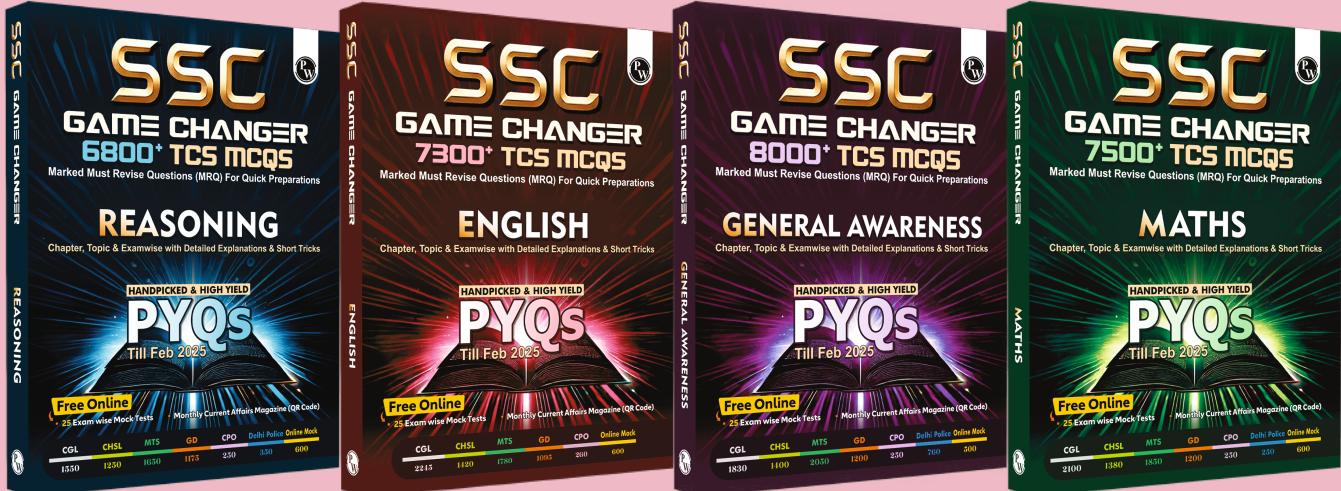
72. (b) $\frac{24}{2} \div 2 = \frac{12}{7}$
and $\frac{11}{15} \div 2 = \frac{11}{30}$
Similarly,
 $\frac{9}{13} \div 2 = \frac{9}{26}.$

73. (b) (213, 157) $\Rightarrow 213 - 56 = 157$
(185, 129) $\Rightarrow 185 - 56 = 129$
Similarly, $(164 - 56) = 108$

74. (b) As, $10 \xrightarrow{+2} 12 \xrightarrow{-4} 8 \xrightarrow{(8+2-3)} 15$
and, $12 \xrightarrow{+2} 14 \xrightarrow{-4} 10 \xrightarrow{(10+2-3)} 19$
Similarly,
 $11 \xrightarrow{+2} 13 \xrightarrow{-4} 9 \xrightarrow{(9+2-3)} 17$

75. (d) Logic: If $(a, b, c) = a + 5.5 = b, b + 5.5 = c$
As, (11, 16.5, 22) $\Rightarrow 11 + 5.5 = 16.5, 16.5 + 5.5 = 22$

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