

DO NOT OPEN THE SEAL OF THE BOOKLET UNTIL YOU ARE TOLD TO DO SO

SSC CGL

TEST SERIES

DATE- __/__/__

DAY- _____

INSTRUCTION FOR CANDIDATE

TEST SERIES NO.

SG Set 03

QUESTION- 100

MARKS- 200

NEGATIVE MARK- 0.50

DURATION- 60 MIN.

1. Use only ball pens with black or blue ink
2. As soon as the examination starts, you must check this question booklet and if there is any unprinted, mutilated or partially printed page or question in it, then replace it with the correct question booklet through the examiner.
3. There are a total of 100 questions in this question booklet.
4. This is an objective test, in which four options are given for the answer to each question, you have to choose only one option with the correct answer out of these four options.
5. Answers to all questions are to be written on separate answer sheets.

6. Instructions for filling the answer sheet are written on the back side of the answer sheet, read them carefully before filling the answer sheet.
7. Blank pages are available in this question booklet for rough work.
8. Candidates cannot leave the room before the end of the examination.
9. After the examination is over, you can go out only with his permission after submitting the ORIGINAL COPY of the answer sheet to the invigilator.
10. After the completion of the examination, the candidate is allowed to take the question booklet and answer sheet with him/her.
11. 2 marks will be given for each correct answer and 0.50 marks will be deducted for each wrong answer.



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Total: 100 Que.

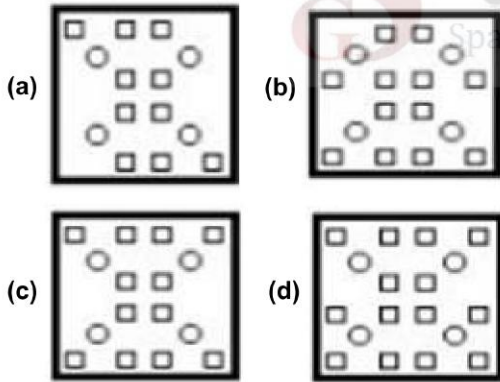
SSC CGL | Tier I | Mock Test 03

Time: 60 Min.

General Intelligence & Reasoning

1). 'Vertebrate' is related to 'Monkey' in the same way as 'Invertebrate' is related to '_____'.
 (a) Snake (b) Deer (c) Starfish (d) Frog

2). The sequence of folding a piece of paper and the manner in which the folded paper has been cut is shown in the following figures. How would this look when unfolded?



3). Four words have been given, out of which three are alike in some manner and one is different. Select the odd word.

- (a) Polio (b) Measles (c) Schizophrenia
 (d) Rabies

4). Select the option in which the numbers are related in the same way as are the numbers in the given set.
 (7, 98, 196)

- (a) (11, 154, 308) (b) (18, 185, 360)
 (c) (15, 190, 380) (d) (20, 267, 520)

5). Select the letter-cluster that can replace the question mark (?) in the following series.

SAT, VEW, YIZ, ?, EUF

- (a) COD (b) BOC (c) BUK (d) FIC

6). Select the option that is embedded in the given figure X (rotation is not allowed).

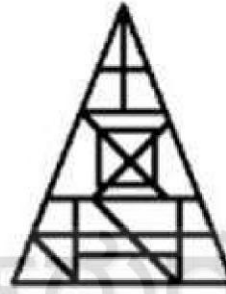
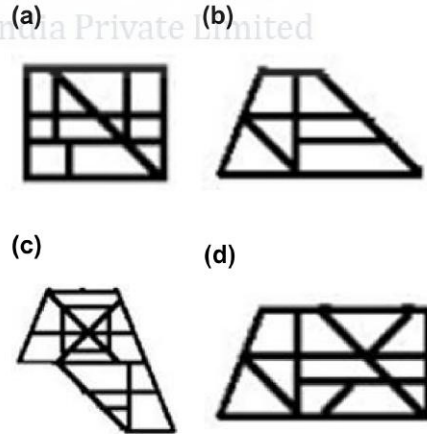


Figure-X



7). Which two signs and two numbers should be interchanged to make the given equation correct?

$$11 \times 7 \div 35 - 64 + 56 = 47$$

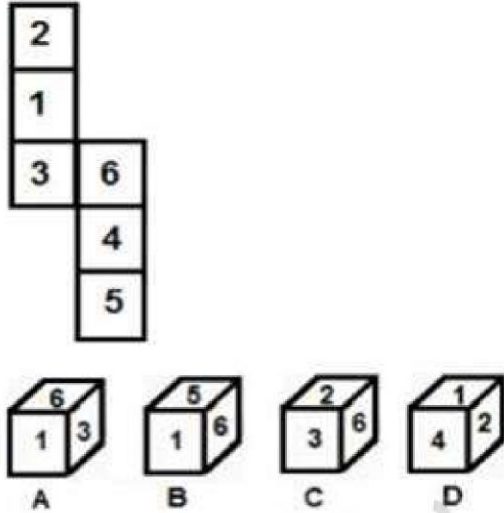
- (a) \times and \div ; 35 and 56 (b) $+$ and $-$; 35 and 11
 (c) \times and \div ; 35 and 11 (d) $+$ and $-$; 7 and 11

8). Select the option in which the words share the same relationship as that shared by the given pair of words.

Examination : Invigilator

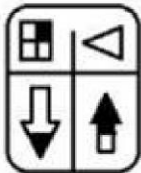
- (a) Bank : Loan (b) Inspection : Approval
(c) Film : Comedian (d) Election : Observer

- 9). Select the dice that can be formed by folding the given sheet along the lines.



- (a) Only A (b) Only A and B (c) Only B
(d) Only C and D

- 10). Select the correct mirror image of the given figure when a mirror is placed on its right side.



- (a) (b)
(c) (d)

- 11). Select the number that can replace the question mark (?) in the following series.
61, 63, 65, 77, 89, ?, 149, 205

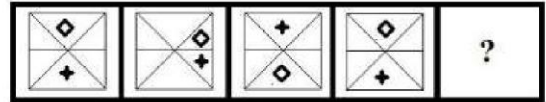
- (a) 132 (b) 115 (c) 123 (d) 119

- 12). Vineet, Rajesh and Kriti have different amounts of money with them. Rajesh has just

double the amount of money than Vineet. The total amount of money that Rajesh and Kriti have is Rs.147. Kriti has Rs.6 more than the amount Vineet has. How much money does Kriti have?

- (a) Rs.53 (b) Rs.64 (c) Rs.72 (d) Rs.50

- 13). Select the figure that can replace the question mark (?) in the following series.



- (a) (b)
(c) (d)

- 14). Four number-pairs have been given, out of which three are alike in some manner and one is different. Select the number-pair that is different from the rest.

- (a) 11:143 (b) 23:667 (c) 19:475 (d) 17:323

- 15). Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow from the statements.

Statements:

- 1) Some papers are copies.
2) No copy is an eraser.

Conclusions:

- I. Some copies are papers.
II. Some papers are erasers.
III. No paper is an eraser

- (a) Only conclusions I and III follow
(b) Only conclusions I and II follow.
(c) Only conclusions II and either conclusion I or III follow.
(d) Only conclusions I and either conclusion II or III follow

- 16). Select the option that is related to the third number in the same way as the second number is related to the first number.

4 : 69 :: 11 : ?

- (a) 1336 (b) 176 (c) 198 (d) 1029

17). In a certain code language, 'CAUGHT' is coded as '326212087'. How will 'SOLDER' be coded as in that language?

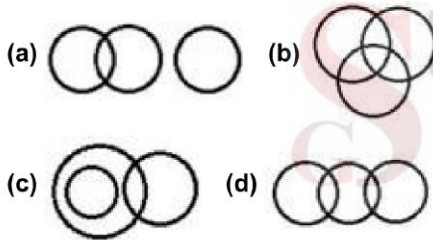
- (a) 1915124359 (b) 1812122459
(c) 1912122359 (d) 2012152358

18). Select the letter-cluster that can replace the question mark (?) in the following series.

AR, CP, ?, GL, IJ, KH

- (a) EM (b) EN (c) DN (d) DM

19). Which of the following Venn diagram best represents the relationship between the following classes?
Income taxpayers, Employees, Males



20). Arrange the following words in the order in which they would appear in an English dictionary.

- 1) Category
- 2) Caption
- 3) Captain
- 4) Capsule
- 5) Capacity

- (a) 5, 4, 3, 2, 1 (b) 4, 5, 3, 2, 1 (c) 5, 4, 1, 3, 2
(d) 5, 4, 3, 1, 2

21). Study the given pattern carefully and select the number that can replace the question mark (?) in it.

21	18	32
19	22	?
299	296	348

- (a) 14 (b) 28 (c) 30 (d) 24

22). In a certain language, 'SANCTION' is written as 'XFSHODJI'. How will 'PROFOUND' be written as in that language?

- (a) UWTKKPIZ (b) UXTKNQIY (c) UWTKJPIY
(d) VWUKMPIY

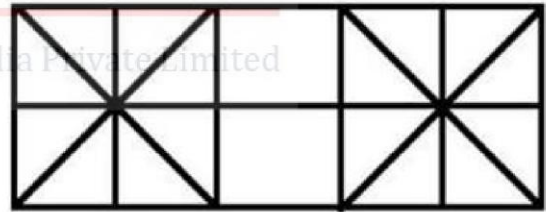
23). Four letter-cluster have been given, out of which three are alike in some manner and one is different. Select the odd letter-cluster.

- (a) LPU (b) PTY (c) ADL (d) NRW

24). Pointing to the photograph of Sanchi. Nitin said, "Her mother's father's son's wife is my mother-in-law's only daughter". How is Nitin related to Sanchi's mother?

- (a) Paternal uncle (b) Paternal grandfather
(c) Brother (d) Maternal uncle

25). How many triangles are there in the given figure?



- (a) 32 (b) 35 (c) 33 (d) 34

General Awareness

1). The _____ in China is the world's longest man-made waterway.

- (a) Corinth Canal (b) Kiel Canal
(c) Suzhou Canal (d) Grand Canal

2). Depreciation is an annual allowance for the wear and tear of _____.

- (a) Finished goods (b) Land (c) Capital goods
(d) Work in progress

3). The headquarters of the Board of Control for Cricket in India (BCCI) are located in _____.

- (a) Mumbai (b) Bengaluru (c) Kolkata (d) Delhi

4). Alai-Darwaza, the southern gateway of the Quwwat-ul-Islam mosque in Delhi, was constructed by _____.

- (a) Ahmad Shah Durrani
(b) Mu'izz ad-Din Muhammad Ghori
(c) Muhammad bin Tughluq (d) Ala-ud-din Khilji

5). The National Commission for Backward Classes (NCBC) was formed by insertion of Article _____ in the Constitution of India.

- (a) 338A (b) 338B (c) 328B (d) 328A

6). The Indus Waters Treaty was signed between India and Pakistan on _____.

- (a) 18 October 1969 (b) 16 December 1963
(c) 19 September 1960 (d) 12 November 1959

7). _____ are homogeneous mixtures of two or more components.

- (a) Amalgams (b) Enzymes (c) Solutions
(d) Emulsions

8). Which of the following is NOT located in Odisha?

- (a) Mayurbhanj Elephant Reserve
(b) Sambalpur Elephant Reserve
(c) Sonitpur Elephant Reserve
(d) Mahanadi Elephant Reserve

9). Which of the following is NOT an ore of iron?

- (a) Siderite (b) Cuprite (c) Haematite
(d) Magnetite

10). Which of the following city will host the G-20 Development Ministerial Meeting?

- (a) New Delhi (b) Varanasi (c) Lucknow
(d) Bengaluru

11). Sukhwinder Singh Sukhu will take oath as the Chief Minister of which of the following states?

- (a) Himachal Pradesh (b) Punjab (c) Gujarat
(d) Delhi

12). The Padma Awards are announced around _____ every year.

- (a) Republic Day (b) Independence Day
(c) Sadbhavana Diwas (d) Hindi Diwas

13). Part VIII of the Constitution of India deals with _____.

- (a) Panchayats (b) States (c) Union Territories
(d) Municipalities

14). The aggregate value of goods and services produced in an economy can be calculated by three methods: income method, expenditure method and _____ method.

- (a) Product / value added (b) Lending
(c) Deposit (d) Spending

15). Who chaired the 10th meeting of the Empowered Task Force of the National Mission for Clean Ganga recently?

- (a) Rajnath Singh (b) Piyush Goyal
(c) Gajendra Singh Shekhawat (d) Amit Shah

16). The total number of images formed by two mirrors inclined at 120° to each other is _____.

- (a) 4 (b) 2 (c) 3 (d) 1

17). Which of the following can be used as a catalyst in Hydrogenation reaction?

- (a) Tungsten (b) Palladium (c) Iron (d) Barium

18). The Gadar (or Ghadar) Party was formed in the year _____.

- (a) 1918 (b) 1915 (c) 1913 (d) 1921

19). _____ renounced his knighthood in protest for Jallianwalla Bagh mass killing.

- (a) Surendranath Banerjee
(b) Rabindranath Tagore (c) Jamsetjee Jejeebhoy
(d) Shivajirao Holkar

20). _____ is also known as the 'Golden City'.

- (a) Jaisalmer (b) Dungarpur (c) Jodhpur
(d) Bundi

21). Name the first Lieutenant Governor of the Union Territory of Jammu and Kashmir.

- (a) Girish Chandra Murmu
(b) Arif Mohammad Khan (c) Satya Pal Malik
(d) Bhagat Singh Koshyari

22). Name the first female amputee to climb Mount Everest.

- (a) Poorna Malavath (b) Anshu Jamsenpa
(c) Arunima Sinha (d) Premlata Agarwal

23). 'Dharmaraja (Yudhishtir) Ratha', 'Bhima Ratha', 'Arjuna Ratha' and 'Nakula Sahadeva Ratha' are four of the Panch Rathas at Mahabalipuram. What is the name of the fifth Ratha?

- (a) Krishna Ratha (b) Draupadi Ratha
(c) Bhishma Ratha (d) Karna Ratha

24). Pernicious Anemia is caused by the deficiency of vitamin ____.

- (a) B2 (b) B6 (c) B12 (d) B1

25). The 'Hyderabad Fund' had been held by the _____ in the account of the High Commissioner of Pakistan to the UK, Habib Ibrahim Rahimtoola.

- (a) National Westminster Bank (b) Kingdom Bank
(c) Butterfield Private Bank (d) Bank of England

English Comprehension

1). Select the correctly spelt word.

- (a) definition (b) competitor (c) proliferate
(d) beneficiary

2). Select the correct synonym of the given word.

ERUDITE

- (a) Learned (b) Illiterate (c) Fashionable
(d) Strong

3). Given below are four jumbled sentences. Select the option that gives their correct order.

A) Although I had a fear of water, I thought it was an important skill I should learn.

B) However, what I didn't realize was that it would also make me a more confident person.

C) I also thought it would be a good exercise that would make me physically stronger.

D) One of the hardest things I've had to do was to learn how to swim.

- (a) DCBA (b) DACB (c) BADC (d) ACDB

4). Select the correctly spelt word.

(a) beaureacracy (b) reimbursement

(c) surveliance (d) recruitment

5). Select the appropriate meaning of the given idiom.

To take the bull by the horns

(a) to surrender to the enemy

(b) to speak arrogantly (c) to handle difficulties

(d) to murder someone

6). Choose the most appropriate option to change the voice (active/passive) form of the given sentence.

They are constructing a residential youth hostel.

(a) A residential youth hostel has been constructed by them.

(b) A residential youth hostel is constructed by them.

(c) A residential youth hostel is being constructed by them.

(d) A residential youth hostel was constructed by them.

DIRECTION (7 -11): In the following passage some words have been deleted. Fill in the blanks with help of the alternatives given. Select the most appropriate option for each blank.

Drug addiction is the continued use of a particular drug (1) _____ harmful consequences. Drug addiction not only affects an individual's health and relationship, but also (2) _____ the society and the environment. Prevention of a particular list of drugs can be

possible by (3) _____ their sale without a prescription. Drug addicts should be given proper medical treatment and (4) _____ facilities. Motivational and awareness camps should be organized to scale down the consumption (5) _____ drugs.

7). Select the most appropriate option for blank No. 1

- (a) in spite (b) Despite (c) despite of
(d) Though

8). Select the most appropriate option for blank No. 2

- (a) Imparts (b) Reflects (c) Impacts
(d) Reduces

9). Select the most appropriate option for blank No. 3

- (a) performing (b) conducting (c) restricting
(d) promoting

10). Select the most appropriate option for blank No. 4

- (a) Regeneration (b) Rehabilitation
(c) Resignation (d) Regression

11). Select the most appropriate option for blank No. 5

- (a) by (b) for (c) from (d) of

12). Select the most appropriate meaning of the given idiom.

To flog a dead horse

- (a) to make the best use of resources
(b) to waste the efforts (c) to accept the challenge
(d) to complete the work

13). Select the most appropriate word to fill in the blank.

All students should express their _____ views in the group discussion without any fear.

- (a) candid (b) guarded (c) outspoken
(d) secluded

14). Select the most appropriate antonym of the given word.

BIZARRE

- (a) strange (b) happy (c) weird (d) usual

15). Select the correct synonym of the given word.

VIOLENT

- (a) kind (b) aggressive (c) calm (d) mild

16). Select the correct antonym of the given word.

ALLURE

- (a) revive (b) repulse (c) rewind (d) attract

17). Select the correct indirect form of the given sentence.

"Hello", he said to his friend. "What can I do for you?"

- (a) He asked and greeted his friend that what he can do for him.
(b) He greeted his friend and asked what he could do for him.
(c) He told hello and asked his friend what he could do for him.
(d) He said hello and asked his friend what can do for him.

18). Select the most appropriate option to substitute the underlined segment in the given sentence. If no substitution is required, select No improvement.

Many of a students were not shortlisted for the personal interview.

- (a) No improvement (b) The many student
(c) Many of the students (d) Many of students

19). Select the word which means the same as the groups of words given.

A long and aggressive speech

- (a) eloquence (b) discussion (c) prologue
(d) harangue

20). Select the word which means the same as the groups of words given.

The school or college in which one has been educated

- (a) Alma mater (b) Mentor (c) Alumni
(d) Graduate

- 21). Select the most appropriate option to substitute the underlined segment in the given sentence. If no substitution is required, select No improvement.

When I was working in a software company, it was mandatory to register my legally as an authorized software developer.

- (a) register mine legally (b) register me legal
(c) register myself legally (d) No improvement

- 22). Given below are four jumbled sentences. Select the option that gives their correct order.

A) During the celebration, many people display a set of ornamental dolls known as 'Hina' dolls.

B) Hinamatsuri is a celebration of the girls in Japan wishing them a bright future.

C) These royal-looking dolls are dressed in the clothing of the Heian period.

D) These dolls represent the Emperor, Empress and other royal representatives.

- (a) CDBA (b) BADC (c) ACBD (d) DBAC

- 23). Select the most appropriate word to fill in the blank.

All his endeavors to win his teacher's favour proved ____ and did not bring the desired results.

- (a) perpetual (b) prosperous (c) futile
(d) apparent

- 24). In the sentence identify the segment which contains the grammatical error.

The old man did not wanted to eat any food.

- (a) any food (b) The old man (c) did not wanted
(d) to eat

- 25). In the sentence identify the segment which contains the grammatical error.

No least than fifty participants were present for the singing competition.

- (a) No least than (b) fifty participants were
(c) present for (d) the singing competition

Quantitative Aptitude

- 1). The average of some numbers is 54.6. If 75% of the numbers are increased by 5.6 each, and the rest are decreased by 8.4 each, then what is the average of the numbers so obtained?

- (a) 55.8 (b) 56.7 (c) 56.3 (d) 55.6

- 2). The given table represents the sale (in thousands) of cars by four companies A, B, C and D in six years. Study the table and answer the question that follows.

Company Year	A	B	C	D
2013	45	63	65	67
2014	52	49	60	69
2015	61	60	66	67
2016	72	58	70	63
2017	52	53	63	75
2018	63	67	76	74

What is the ratio of the total number of cars sold by companies A, B and D in 2017 to the total number of cars sold by all four companies in 2018?

- (a) 9:14 (b) 3:4 (c) 18:23 (d) 6:13

- 3). A and B together borrowed a sum of Rs.51,750 at an interest rate of 7% p.a. compound interest in such a way that to settle the loan, A paid as much amount after three years as paid by B after 4 years from the day borrowing. The sum (in Rs.) borrowed by A was:

- (a) 24,860 (b) 25,000 (c) 26,750 (d) 25,650

- 4). The given table represents the sale (in thousands) of cars by four companies A, B, C and D in six years. Study the table and answer the question that follows.

Company Year	A	B	C	D
2013	45	63	65	67
2014	52	49	60	69
2015	61	60	66	67
2016	72	58	70	63
2017	52	53	63	75
2018	63	67	76	74

The total number of cars sold by company B during 2015, 2017 and 2018 is what percentage less than the total number of cars sold by company C in 2013, 2015, 2017 and 2018?

- (a) 40 (b) $33\frac{1}{3}$ (c) $16\frac{2}{3}$ (d) 50

5). A and B spend 60% and 75% of their incomes, respectively. If the savings of A are 20% more than that of B, then by what percentage is the income of A less than the income of B?

- (a) 15 (b) 10 (c) 20 (d) 25

6). Reema sold 48 articles for Rs.2,160 and suffered a loss of 10%. How many articles should she sell for Rs.2,016 to earn a profit of 12%?

- (a) 40 (b) 36 (c) 28 (d) 32

7). The marked price of an item is 25% above its cost price. A shopkeeper sells it, allowing a discount of x% on the marked price. If he incurs a loss of 8%, then the value of x is:

- (a) 25.2% (b) 25.6% (c) 26.8% (d) 26.4%

8). A boat can go 3.6 km upstream and 5.4 km downstream in 54 minutes, while it can go 5.4 km upstream and 3.6 km downstream in 58.5 minutes. The time (in minutes) taken by the boat in going 10 km downstream is:

- (a) 54 (b) 50 (c) 48 (d) 45

9). If $11\sin^2\theta - \cos^2\theta + 4\sin\theta - 4 = 0$, $0^\circ < \theta < 90^\circ$, then what is the value of $\frac{\cos 2\theta + \cot 2\theta}{\sec 2\theta - \tan 2\theta}$?

- (a) $\frac{12+5\sqrt{3}}{3}$ (b) $\frac{10+7\sqrt{3}}{6}$ (c) $\frac{10+5\sqrt{3}}{3}$
(d) $\frac{12+7\sqrt{3}}{6}$

10). In $\triangle ABC$, $\angle B = 90^\circ$. If points D and E are on side BC such that $BD = DE = EC$, then which of the following is true?

- (a) $8AE^2 = 5AC^2 + 3AD^2$ (b) $8AE^2 = 3AC^2 + 5AD^2$
(c) $5AE^2 = 2AC^2 + 3AD^2$ (d) $5AE^2 = 3AC^2 + 2AD^2$

11). Diameter AB of a circle with centre O is produced to a point P such that $PO = 16.8$ cm. PQR is a secant which intersects the circle at Q

and R such that $PQ = 12$ cm and $PR = 19.2$ cm. The length of AB (in cm) is:

- (a) 14.2 (b) 15.8 (c) 15.2 (d) 14.4

12). In $\triangle PQR$, $PQ = 24$ cm and $\angle Q = 58^\circ$. S and T are the points on side PQ and PR, respectively, such that $\angle STR = 122^\circ$. If $PS = 14$ cm and $PT = 12$ cm, then the length of RT is:

- (a) 14.8cm (b) 16.4 cm (c) 15 cm (d) 16 cm

13). If $20x^2 - 30x + 1 = 0$, then what is the value of $25x^2 + 1/16x^2$?

- (a) $53\frac{3}{4}$ (b) $58\frac{1}{2}$ (c) $53\frac{1}{2}$ (d) $58\frac{3}{4}$

14). If the radius of a right circular cylinder is decreased by 10%, and the height is increased by 20%, then the percentage increase/decrease in its volume is:

- (a) decrease by 1.8% (b) decrease by 2.8%
(c) increase by 2.8% (d) increase by 1.8%

15). What is the value of

$$\frac{\cos \sec(78^\circ + \theta) - \sec(12^\circ - \theta) - \tan(67^\circ + \theta) + \cot(23^\circ - \theta)}{\tan 13^\circ \tan 37^\circ \tan 45^\circ \tan 53^\circ \tan 77^\circ}$$

- (a) -1 (b) 2 (c) 1 (d) 0

16). If $5\cos\theta - 12\sin\theta = 0$, then what is the value of $\frac{1 + \sin\theta + \cos\theta}{1 - \sin\theta + \cos\theta}$?

- (a) 3/2 (b) 5/4 (c) 3/4 (d) 5/2

17). What x is added to each of 10, 16, 22 and 32, the numbers so obtained in this order are in proportion? What is the true proportional between the numbers (x + 1) and (3x + 1)?

- (a) 12 (b) 9 (c) 10 (d) 15

18). To complete a certain task, X is 40% more efficient than Y, and Z is 40% less efficient than Y. Working together, they can complete the task in 21 days. Y and Z together worked for 35 days. The remaining work will be completed by X alone in:

- (a) 5 days (b) 4 days (c) 8 days (d) 6 days

- 19). If $x^4 + x^2y^2 + y^4 = 273$ and $x^2 - xy + y^2 = 13$, then the value of xy is:

(a) 4 (b) 6 (c) 8 (d) 10

- 20). The given table represents the sale (in thousands) of cars by four companies A, B, C and D in six years. Study the table and answer the question that follows.

Company Year	A	B	C	D
2013	45	63	65	67
2014	52	49	60	69
2015	61	60	66	67
2016	72	58	70	63
2017	52	53	63	75
2018	63	67	76	74

The total number of cars sold by companies A in 2017 and C in 2013 is what percentage of the total number of cars sold by all four companies in 2013 and 2016? (correct to one decimal place)

(a) 25.6 (b) 23.8 (c) 24.2 (d) 23.2

- 21). The value of $\frac{3}{5} \times \frac{7}{8} \div 1\frac{1}{3}$ of $\frac{3}{16}$ -

$$\left(3\frac{1}{5} \div 4\frac{1}{2} \text{ of } 5\frac{1}{3}\right) \times 2\frac{1}{2} + \frac{1}{2} + \frac{1}{8} \div \frac{1}{4} \text{ is:}$$

(a) $4\frac{1}{3}$ (b) $4\frac{1}{8}$ (c) $5\frac{1}{6}$ (d) $5\frac{5}{6}$

- 22). The given table represents the sale (in thousands) of cars by four companies A, B, C and D in six years. Study the table and answer the question that follows.

Company Year	A	B	C	D
2013	45	63	65	67
2014	52	49	60	69
2015	61	60	66	67
2016	72	58	70	63
2017	52	53	63	75
2018	63	67	76	74

The total number of cars sold by company C in 2018 exceeds the average number of cars sold by company A during 2014 to 2018 by:

(a) 15,000 (b) 12,000 (c) 16,000 (d) 14,000

- 23). When a positive integer is divided by d , the remainder is 15. When ten times of the same number is divided by d , the remainder is 6. The least possible value of d is:

(a) 18 (b) 12 (c) 9 (d) 16

- 24). ABCD is a cyclic quadrilateral in which sides AD and BC are produced to meet at P, and sides DC and AB meet at Q when produced. If $\angle A = 60^\circ$ and $\angle AB = 72^\circ$, then $\angle DPC - \angle BQC =$

(a) 40° (b) 30° (c) 24° (d) 36°

- 25). $\frac{x^2(x-4)^2}{(x+4)^2 - 4x} \div \frac{(x^2 - 4x)^3}{(x+4)^2} \times \frac{64 - x^3}{16 - x^2}$ is equal to:

(a) $\frac{x+4}{x(x-4)}$ (b) $\frac{x+4}{x-4}$ (c) $\frac{x-4}{x+4}$ (d) $\frac{x+4}{x(4-x)}$