

RRB NTPC Memory Based Model Paper Based on Feb 02 Shift 1 Exam



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General Awareness

1) Chandrayaan-1, first Indian lunar probe operated until_____.

- a) August 29, 2009
- b) December 15, 2005
- c) November 22, 2008
- d) January 10, 2003

Answer: a)

Chandrayaan-1 was the first Indian lunar probe under Chandrayaan program. It was launched by the Indian Space Research Organisation in October 2008, and operated until August 2009. Thus, ISRO lost communication with Chandrayaan-1 on August 29, 2009, almost a year after it was launched on October 22, 2008.

2) Padmavati, legendary queen of the Mewar kingdom is associated with which fort?

- a) Chittorgarh Fort
- b) Kumbalgarh Fort
- c) Ranthambore Fort
- d) Amer Fort

Answer: a)

Padmavati, was a legendary 13th–14th century queen of the Mewar kingdom. She was an exceptionally beautiful princess of the Singhal kingdom. She is associated with Chittorgarh Fort which was the capital of Mewar.

3) Digital India campaign was launched by the Government of India in which year?

- a) 2015

b) 2018

c) 2014

d) 2017

Answer: a)

Digital India is a campaign launched by the Government of India in order to ensure that the Government's services are made available to citizens electronically by improved online infrastructure and by increasing Internet connectivity or making the country digitally empowered in the field of technology. It was launched on 1 July 2015, by Indian Prime Minister Narendra Modi.

4) Which famous personality is the Brand Ambassador of RBI?

- a) Sachin Tendulkar
- b) Salman Khan
- c) Amitabh Bachchan
- d) Mahendra Singh Dhoni

Answer: c)

Reserve Bank roped in Bollywood megastar Amitabh Bachchan for the customer awareness campaign to prevent gullible account holders from being duped by fraudsters. RBI is running the campaign for more than a year not only in English and Hindi but in various regional languages for maximum reach.

5) Harshacharita, an important historical work narrating the incidents of earlier part of Harsha's reign is authored by whom?

- a) Banabhatta

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- b) Hieun Tsang
- c) Harshavardhana
- d) Rajyavardhana

Answer: a)

The Harshacharita is the biography of Indian emperor Harsha by Banabhatta, who was a Sanskrit writer of seventh-century CE India. He was the Court Poet, of Harsha. The Harshacharita was the first composition of Bana and is considered to be the beginning of writing of historical poetic works in Sanskrit language.

- 6) The National Waterways Act, came into force in which year?
- a) 2003
- b) 1999
- c) 1993
- d) 2006

Answer: d)

The National Waterways Act, 2016 is an Act of Parliament of India. It was tabled in Lok Sabha by Minister of Shipping, Road Transport and Highways Nitin Gadkari on 5 May 2015. The Act merges 5 existing Acts which have declared the 5 National Waterways and proposes 101 additional National Waterways.

- 7) The number of free electrons in the outermost shell of carbon in graphite is_____.
- a) Three
- b) One
- c) Five
- d) Eight

Answer: b)

The number of free electrons in the outermost shell of carbon in graphite is one. Each C atom is sp^2 hybridised.

Each C atom forms 3 covalent bonds with 3 other C atoms. Thus, each C atom has one electron in unhybridized 2p orbital which it uses for π bonding.

- 8) Which metal is found in liquid state?

- a) Mercury
- b) Zinc
- c) Aluminium
- d) Platinum

Answer: a)

Mercury is a dense, silvery d-block element. It is the only metal that is liquid at standard conditions for temperature and pressure. The only other element that is liquid under these conditions is bromine, though metals such as caesium, gallium, and rubidium melt just above room temperature.

- 9) Dhalo is a popular ritual folk dance of which state?

- a) Arunachal Pradesh
- b) Goa
- c) Rajasthan
- d) Maharashtra

Answer: b)

Dhalo is a popular ritual folk dance form Goa, India. The dance is performed by women and serves as a prayer of protection for their households. The songs to which the dance is performed are usually sung in Konkani language or Marathi.

- 10) Nathu La is a mountain pass located in_____.

- a) Ladakh
- b) Jammu and Kashmir
- c) Sikkim
- d) Himachal Pradesh

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Answer: c)

Nathu La is a mountain pass in the Himalayas in East Sikkim district. It connects the Indian state of Sikkim with China's Tibet Autonomous Region. This pass has played a crucial role in strengthening the economy of India and has also helped in improving the border relations with China.

11) Krishi Kumbh Mela 2019 took place in which city of Bihar?

- a) Motihari
- b) Begusarai
- c) Nalanda
- d) Gaya

Answer: a)

Governor Lalji Tandon and Union Agriculture Minister Radha Mohan Singh jointly inaugurated the three-day Krishi Kumbh in Motihari, Bihar in 2019. The objective of Krishi Kumbh was to promote modern techniques and diversification in agriculture that could help in doubling farmers income.

12) What was the name of the capital of Vijayanagara Kingdom?

- a) Hampi
- b) Davanagere
- c) Vijayapura
- d) Shivamogga

Answer: a)

The Vijayanagara Empire was based in the Deccan Plateau region in South India. It was established in 1336 by the brothers Harihara I and Bukka Raya I of the Sangama dynasty. The empire is named after its capital city of Vijayanagara, whose ruins surround present day Hampi, which is a World Heritage Site in Karnataka, India.

13) India shares the longest border with which of the following country?

- a) Bangladesh
- b) China
- c) Bhutan
- d) Myanmar

Answer: a)

India shares borders with several sovereign countries. It shares land borders with China, Bhutan, Nepal and Pakistan in the north or north-west, and with Bangladesh and Myanmar in the east. The longest border is shared by Bangladesh which is 4096.70 Km.

14) How many countries pass through the Prime meridian?

- a) Eight
- b) Twelve
- c) Three
- d) Nine

Answer: a)

The Prime Meridian is the imaginary line drawn north to south at 0° longitude. It is the starting point for measuring distance both west and east around the Earth. There are 8 countries, 3 continents and 6 water bodies through which the Prime Meridian passes.

15) Who among the following is the Chairperson of National Green Tribunal(NGT)?

- a) Samir Nigam
- b) Vijay Shekhar Sharma
- c) Prashant Kumar
- d) Adarsh Kumar Goel

Answer: d)

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Adarsh Kumar Goel is an Indian Judge and the Chairperson of National Green Tribunal. He is former Judge of Supreme Court of India.

16) Kumbh Mela 2021 will be held at which place?

- a) Ujjain
- b) Haridwar
- c) Nashik
- d) Prayagraj

Answer: b)

Kumbh Mela, also called Kumbha Mela, in Hinduism, religious festival that is celebrated four times over the course of 12 years. The 2021 Maha Kumbh Mela will be held at Haridwar.

17) Halley's Comet will appear for the next-time in which year?

- a) 2061
- b) 2066
- c) 2075
- d) 2052

Answer: a)

Halley's Comet is a short-period comet visible from Earth every 75–76 years. It is the only known short-period comet that is regularly visible to the naked eye from Earth, and the only naked-eye comet that can appear twice in a human lifetime. It last appeared in the inner parts of the Solar System in 1986 and will next appear in mid-2061.

18) Which state has the highest literacy rate in India?

- a) Andhra Pradesh
- b) Kerala
- c) Karnataka
- d) Maharashtra

Answer: b)

The literacy rate of India is 77.7% while Kerala has emerged as the most literate state in the country, followed by Delhi while Andhra Pradesh has recorded the lowest literacy rate.

19) Who was the first Sultan of Delhi to introduce the practice of 'Sijda'?

- a) Firuz Shah Tughlaq
- b) Alauddin Khalji
- c) Ghiyas ud din Balban
- d) Muhammad bin Bakhtiyar Khalji

Answer: c)

Ghiyasuddin Balban was the first Sultan of Delhi to introduce the practice of 'Sijda'. He started Sijda and Paibos as the normal form of Salutation of the king. In Sijda people had to Kneel down and touch the ground with their head to greet the Sultan.

20) Who among the following was the founder of Mamluk Dynasty?

- a) Aram Shah
- b) Qutb ud-Din Aibak
- c) Shams-ud-din Iltutmish
- d) Rukn-ud-din Feroze

Answer: b)

The Mamluk Dynasty was directed into Northern India by Qutb ud-Din Aibak, a Turkic Mamluk general from Central Asia. The Mamluk Dynasty ruled from 1206 to 1290 and it was the first of five unrelated dynasties to rule as the Delhi Sultanate till 1526.

21) What is the name of the Ganga River in Bangladesh?

- a) Padma

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- b) Meghna
- c) Buriganga
- d) Madhumati

Answer: a)

The Padma is a major river in Bangladesh and India. It is the main distributary of the Ganges, flowing generally southeast for 120 kilometres to its confluence with the Meghna River near the Bay of Bengal. The city of Rajshahi is situated on the banks of the river.

- 22) Single citizenship concept is adopted from the constitution of which country?
- a) Britain
 - b) Ireland
 - c) Germany
 - d) South-Africa

Answer: a)

In India, the concept of single citizenship is adopted from the British constitution that is from united kingdom. In India, only single citizenship is available to citizens.

- 23) Who was the winner of the 2020 ICC Under-19 Cricket World Cup?
- a) Bangladesh
 - b) India
 - c) South-Africa
 - d) New-Zealand

Answer: a)

The 2020 ICC Under-19 Cricket World Cup was an international limited-overs cricket tournament that was held in South Africa from 17 January to 9 February 2020. It was the thirteenth edition of the Under-19 Cricket World Cup, and the second to be held in South Africa. Bangladesh beat India by three wickets to win the

tournament and it was Bangladesh's first win in an ICC event at any level.

- 24) 'Do or Die' is associated with which of the following movement in India's Freedom Struggle?

- a) Quit India Movement
- b) Khilafat Movement
- c) Non-Cooperation Movement
- d) Dandi March

Answer: a)

Quit India became the most powerful movement in the freedom struggle. Thousands of freedom fighters were killed or injured by police gunfire, and hundreds of thousands were arrested. He called on all Congressmen and Indians to maintain discipline via nonviolence and Karo Ya Maro (Do or Die) in order to achieve ultimate freedom.

- 25) Hindi Day is a national day celebrated every year on_____.
- a) 18 August
 - b) 14 September
 - c) 22 May
 - d) 29 March

Answer: b)

Hindi Day is a national day of India celebrated every year on 14 September because on 14 September 1949, Hindi became the official language of India.

- 26) Nagarjuna Sagar Dam is built on which river?
- a) Godavari
 - b) Krishna
 - c) Narmada
 - d) Kaveri

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Answer: b)

Nagarjuna Sagar Dam is a masonry dam across the Krishna River at Nagarjuna Sagar which straddles the border between Guntur district in Andhra Pradesh and Nalgonda district in Telangana. It is also one of the earliest multi-purpose irrigation and hydroelectric projects in India.

27) Which state bagged first position in the implementation of Pradhan Mantri Matru Vandana Yojana (PMMVY)?

- a) Kerala
- b) Odisha
- c) Madhya Pradesh
- d) Telangana

Answer: c)

Pradhan Mantri Matru Vandana Yojana (PMMVY) is a maternity benefit program run by the government of India. It was introduced in 2017 and is implemented by the Ministry of Women and Child Development. Madhya Pradesh bagged the first position for the implementation of Pradhan Mantri Matru Vandana Yojana.

28) According to the State Census 2011, which state has the least population?

- a) Arunachal Pradesh
- b) Uttarakhand
- c) Sikkim
- d) Assam

Answer: c)

According to the State Census 2011, the most populated state in India is Uttar Pradesh with a population of 19.96 crores. The least populated state in the country is Sikkim with a population of 60,7688.

29) Who won the Australian Open women's singles title 2020?

- a) Sofia Kenin
- b) Garbine Muguruza
- c) Naomi Osaka
- d) Coco Gauff

Answer: a)

Sofia Kenin won her first Grand Slam title, defeating Garbine Muguruza in the final. She became the first American woman, other than Serena Williams, to win the Australian Open women's singles title 2020.

30) Name the scientific discipline concerned with the study of viruses.

- a) Anthropology
- b) Virology
- c) Embryology
- d) Bacteriology

Answer: b)

Virology is the study of viruses-submicroscopic, parasitic particles of genetic material contained in a protein coat and virus-like agents. It is a subfield of microbiology.

31) Which one of the following is India's first UNESCO World Heritage City?

- a) Jaipur
- b) Ahmedabad
- c) Mahabalipuram
- d) Fatehpur Sikri

Answer: b)

The commercial capital of Gujarat, Ahmedabad, has been formally accorded the status of India's first World Heritage City by UNESCO.

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32) Who is the current Chief of the Army Staff?

- a) Bipin Rawat
- b) Balbir Singh Suhag
- c) Manoj Mukund Naravane
- d) Vijay Kumar Singh

Answer: c)

General Manoj Mukund Naravane is a four star general of the Indian Army and the 28th Chief of the Army Staff. He took over from General Bipin Rawat on 31 December 2019.

33) What is the venue of the 2018 Commonwealth Games?

- a) Gold Coast, Australia,
- b) Glasgow, United Kingdom
- c) Kuala Lumpur, Malaysia
- d) Auckland, New Zealand

Answer: a)

The 2018 Commonwealth Games, was an international multi-sport event for members of the Commonwealth that were held on the Gold Coast, Queensland, Australia. It was the fifth time Australia had hosted the Commonwealth Games and the first time a major multi-sport event achieved gender equality by having an equal number of events for male and female athletes.

34) Pandit Bhimsen Joshi is associated with which field?

- a) Journalism
- b) Biomedical Science
- c) Music
- d) Architecture

Answer: c)

Pandit Bhimsen Gururaj Joshi was an Indian vocalist from Karnataka, in the Hindustani classical tradition. He is

known for the khayal form of singing, as well as for his popular renditions of devotional music. He belongs to the Kirana gharana tradition of Hindustani Classical Music.

35) Which movement proved to be strongest in Bengal and also known as Vandemataram Movement?

- a) Non-Cooperation Movement
- b) Civil Disobedience Movement
- c) Quit India Movement
- d) Swadeshi Movement

Answer: d)

The second Swadeshi movement started with the partition of Bengal by the Viceroy of India, Lord Curzon in 1905 and continued up to 1911. It was the most successful of the pre-Gandhian movement. It was strongest in Bengal and was also called vandemataram movement.

36) The Noble Prize 2020 in Chemistry was awarded to whom for development of Crispr-Cas9?

- a) Jennifer A. Doudna
- b) Emmanuelle Charpentier
- c) Louise Gluck
- d) Both a and b

Answer: d)

The 2020 Nobel Prize in Chemistry was jointly awarded to French microbiologist, geneticist, and biochemist Emmanuelle Charpentier and American biochemist Jennifer A. Doudna for their work on the development of CRISPR-Cas9, a cutting edge, novel method for genome editing.

37) Who among the following is the CEO of Amazon?

- a) Jeff Bezos
- b) Tim Cook

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- c) Mark Zuckerberg
- d) Warren Buffett

Answer: a)

Jeffrey Bezos is an American internet entrepreneur, industrialist and investor. He is the founder, CEO, and president of the multi-national technology company Amazon.

38) What was the total length of National highways in 2017?

- a) 120,493 km
- b) 101,011 km
- c) 113,100 km
- d) 125,549 km

Answer: a)

The National highways in India are a network of trunk roads owned by the Ministry of Road Transport and Highways. It is constructed and managed by the National Highway Authority of India (NHAI). The total length of National highways in 2017 was 120,493 km.

39) 73rd and 74th Constitutional Amendment Act, 1992 is related to_____.

- a) Reservation of seats provided to SCs and STs
- b) National Commission for Scheduled Castes and Scheduled Tribes
- c) Local Self-Government
- d) Allocation of Seats in Lok-Sabha

Answer: c)

73rd and 74th amendment act is related to Local-Self Government. Though the Panchayats and the municipalities existed even before the 73rd and 74th amendment of the Constitution in the year 1993, these amendments provided an impetus to the decentralisation

process through a system of self-government for the panchayats and municipalities and devolve greater powers, functions and authority to them.

40) National Waterway-3 passes through which Indian state?

- a) Gujarat
- b) Kerala
- c) Odisha
- d) Jharkhand

Answer: b)

National Waterway 3 is an inland navigational route located in Kerala, India and runs from Kollam to Kottapuram and was declared a National Waterway in 1993. It is the first National Waterway in the country with 24-hour navigation facilities along the entire stretch.

Logical Reasoning

1. Statement and their conclusions are given below.

Statement:

Adversity makes a man wise.

Conclusion:

- I. The poor are wise.
- II. Men learn from bitter experiences.

Choose the correct option.

- a) Only I follows.
- b) Only II follows.
- c) Both I and II follows.
- d) Neither I nor II follows.

Answer: B

2. Heat : Cold :: _____ : _____

- a) Large : Big
- b) Thin : Thick

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c) Tall : High

d) Male : Child

Answer: B

Words are antonyms of each other.

3. In the question two statements are given, followed by two conclusions, I and II. You have to consider the statements to be true even if it seems to be at variance from commonly known facts. You have to decide which of the given conclusions, if any follows from the given statements.

Statement:

I. No home is hut.

II. Some flat are not home.

Conclusion:

I. Some hut is flat.

II. Some home is not hut.

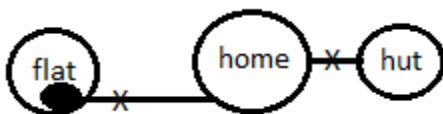
a) Only conclusion II follows

b) Only conclusion I follows

c) Either I or II follows

d) Both I and II follow

Answer: A



I. Some hut is flat. - False

II. Some home is not hut. - True

4. Which two signs should be interchanged to make the given equation correct?

$$225 + 5 \times 3 \div 5 - 7 = 133$$

a) \times and \div

b) $-$ and $+$

c) \times and $-$

d) $+$ and \div

Answer: D

$$225 + 5 \times 3 \div 5 - 7 = 133$$

d) $+$ and \div

$$\Rightarrow 225 \div 5 \times 3 + 5 - 7 = 133$$

$$\Rightarrow 45 \times 3 + 5 - 7 = 133$$

$$\Rightarrow 135 + 5 - 7 = 133$$

$$\Rightarrow 140 - 7 = 133$$

$$\Rightarrow 133 = 133$$

5. Looking at a photo, Smriti said, "This man is the eldest son of my mother's mother-in-law". How is Smriti's father related to the man in the photo?

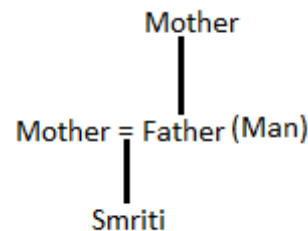
a) Son

b) Brother-in-law

c) Father

d) Himself

Answer: C



Smriti's father is the man himself.

6. In the question two statements are given, followed by two conclusions, I and II. You have to consider the statements to be true even if it seems to be at variance from commonly known facts. You have to decide which of the given conclusions, if any follows from the given statements.

Statement:

I. Some zebra are white.

II. Some swan are white.

Conclusion:

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- I. Some swan are zebra.
 II. Some swan is not zebra.
 a) Only conclusion II follows
 b) Only conclusion I follows
 c) Either I or II follows
 d) Both I and II follow

Answer: C



- I. Some swan are zebra. - False
 II. Some swan is not zebra. - False
 Either I or II follows.

7. In a certain code language, TEACHER is written as WRTKPRF, then how is CHEATER written in that code?

- a) KPRWTRF
 b) KPRTRWF
 c) KPTRWRF
 d) KPRTWRF

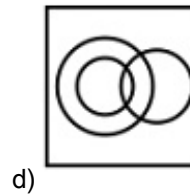
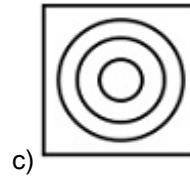
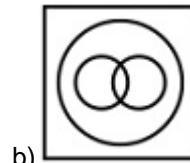
Answer: D

T	E	A	C	H	E	R
W	R	T	K	P	R	F

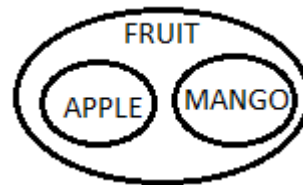
Similarly,

C	H	E	A	T	E	R
K	P	R	T	W	R	F

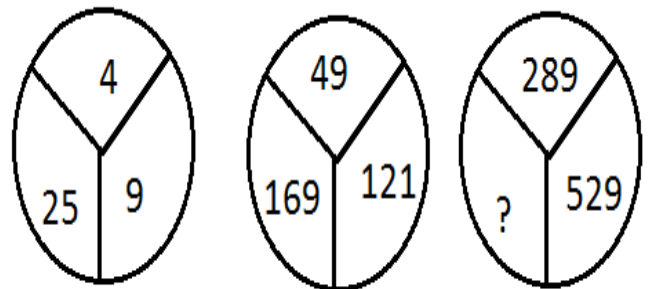
8. Which of the following diagrams indicates the best relation between Fruit, Mango, and Apple.



Answer: A



9. Find the missing number in the diagram given below.



- a) 841
 b) 361
 c) 441
 d) 961

Answer: A

Squares of consecutive prime numbers.

1st diagram: 2², 3², 5²

2nd diagram: 7², 11², 13²

3rd diagram: 17², 23², ? = 29² = 841

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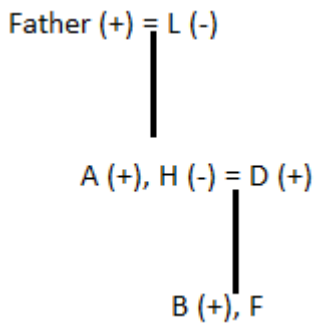
Direction (10 – 11): Read the information carefully and answer the question based on it.

A is uncle of B who is son of D, but D is neither brother nor sister of A. A's father is husband of L. L's daughter H is mother of F.

10. How is B related to F?

- a) Brother
- b) Sister
- c) Mother
- d) Aunt

Answer: A



11. How is D related to H?

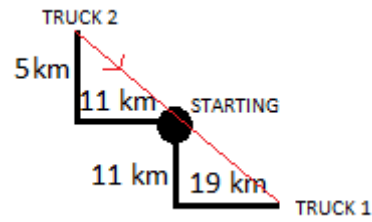
- a) Son
- b) Brother
- c) Husband
- d) Father-in-law

Answer: C

12. Two army trucks start from same army base, 1st truck travels 11 km south, then turn to left and travel 19 km. 2nd truck travels 11 km west, then turns to its right and travel 5 km. In which direction is Truck 1 with respect to Truck 2?

- a) North-East
- b) South-West
- c) North-West
- d) South-East

Answer: D

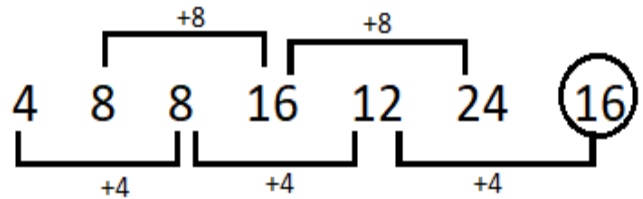


13. Select the number that will continue the given series.

4, 8, 8, 16, 12, 24, ?

- a) 48
- b) 32
- c) 16
- d) 12

Answer: C



Directions (14 – 16): Read the given information carefully and answer the questions based on it.

Out of the 100 players, 20 people love only football, 30 people love both football and hockey, 15 people love only cricket, 25 people love only hockey, 5 people love both football and cricket and the remaining love only basketball.

14. How many players like football?

- a) 35
- b) 20
- c) 25
- d) 55

Answer: D

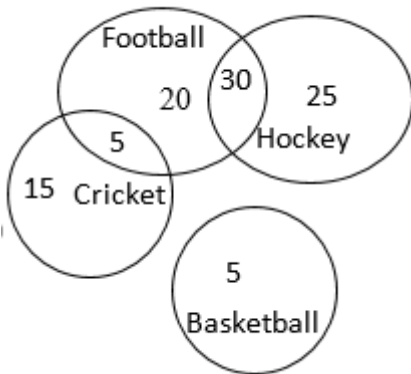
Out of the 100 players

20 people love only football

30 people love both football and hockey

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15 people love only cricket
 25 people love only hockey
 5 people love both football and cricket
 People who love only basketball = $100 - (20 + 30 + 15 + 25 + 5)$
 = $100 - 95$
 = 5



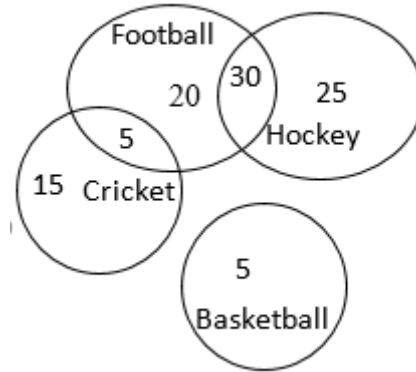
15. How many people love only basketball?

- a) 15
- b) 10
- c) 5
- d) 20

Answer: C

Out of the 100 players

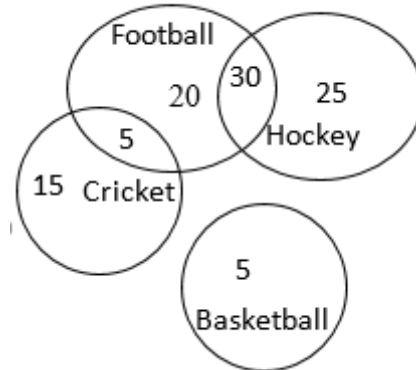
20 people love only football
 30 people love both football and hockey
 15 people love only cricket
 25 people love only hockey
 5 people love both football and cricket
 People who love only basketball = $100 - (20 + 30 + 15 + 25 + 5)$
 = $100 - 95$
 = 5



16. Find the ratio of people who love only cricket and people who like football.

- a) 3 : 11
- b) 11 : 3
- c) 11 : 5
- d) 5 : 11

Answer: A



People who love only cricket = 15

People who like football = $5 + 20 + 30 = 55$

Ratio = 15 : 55

= 3 : 11

17. 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) 65 - 89
- b) 53 - 79
- c) 33 - 66

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d) 81 - 90

Answer: D

a) $65 - 89 \rightarrow 6 - 5 = 8 - 9$

b) $53 - 79 \rightarrow 5 - 3 = 7 - 9$

c) $33 - 66 \rightarrow 3 - 3 = 6 - 6$

d) $81 - 90 \rightarrow 8 - 1 \neq 9 - 0$

18. In the following question, select the odd word from the given alternatives.

a) Volume

b) Cube

c) Cuboid

d) Pyramid

Answer: A

All options except 'volume' are name of different 3D shapes.

19. Find the wrong term in the series.

9, 23, 50, 103, 208, 416

a) 23

b) 103

c) 208

d) 416

Answer: D

$(9 \times 2) + 5 = 23$

$(23 \times 2) + 4 = 50$

$(50 \times 2) + 3 = 103$

$(103 \times 2) + 2 = 208$

$(208 \times 2) + 1 = 417 \neq 416$

20. A person is facing towards East. He turns 270° clockwise and then 45° anticlockwise. Finally he turns 120° anticlockwise. Now, the person is facing in which direction?

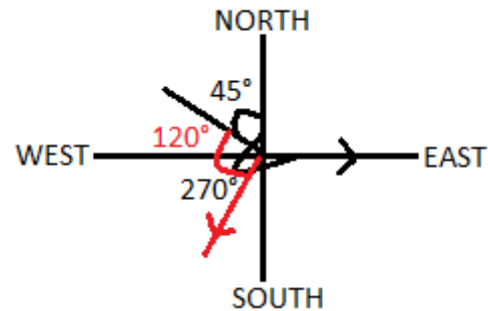
a) North-East

b) South-West

c) North-West

d) South-East

Answer: B



21. Choose the correct alternative from the given options that will complete the series.

XWV, TSR, PON, LKJ, ?

a) HFG

b) HHE

c) HGF

d) HIF

Answer: C

$X - 4 = T$; $T - 4 = P$; $P - 4 = L$; $L - 4 = H$

$W - 4 = S$; $S - 4 = O$; $O - 4 = K$; $K - 4 = G$

$V - 4 = R$; $R - 4 = N$; $N - 4 = J$; $J - 4 = F$

22. What would be $20 + 12 - 6$ if '+' becomes '-' and '-' becomes '+'?

a) 20

b) 18

c) 24

d) 16

Answer: B

$20 + 12 - 6$

When '+' becomes '-' and '-' becomes '+', then:

$20 - 12 \div 6$

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= 20 – 2

= 18

23. Read the following statements and carefully answer the given question.

Cocoa and chocolate products have been used as medicine in various cultures for many centuries. Chocolate is sourced from plants, which means it contains many of the health benefits of leafy vegetables.

Which of the following alternatives weakens the above argument?

- a) Dark chocolate contains a large number of antioxidants which slow down the ageing process.
- b) A small study revealed that regular intake of chocolate increases insulin sensitivity, thus lowering the chances of diabetes.
- c) Green leafy vegetables have substances which protects skin from UV rays.
- d) Chocolates have three types of fats, one of which increases the level of 'bad cholesterol'.

Answer: D

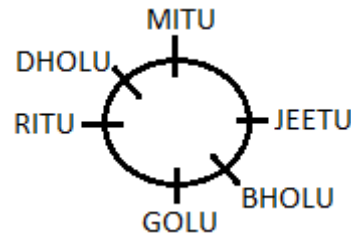
Direction (24 – 25): Read the information carefully and answer the question based on it.

Six friends – Dholu, Golu, Bholu, Mitu, Ritu and Jeetu are seating around a circular table facing away from the centre. Bholu is fourth to the left of Mitu. Neither Ritu nor Golu is adjacent to Mitu. Bholu is sitting between Golu and Jeetu.

24. Who is sitting opposite to Ritu?

- a) Bholu
- b) Golu
- c) Jeetu
- d) Dholu

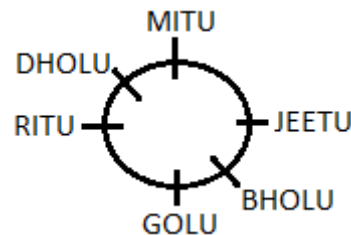
Answer: C



25. Who is sitting third to the right of Dholu?

- a) Jeetu
- b) Bholu
- c) Golu
- d) Ritu

Answer: B



26. An assertion (A) and a reason (R) are given below.

Assertion (A): Urban India is sicker than rural India in spite of better healthcare facilities.

Reason (R): Urban life is facing the problems of increasing pollution levels, hygienic garbage dumping and a fast food culture.

Choose the correct option.

- a) A is true but R is false.
- b) A is false but R is true.
- c) A and R both are true and R is the correct explanation of A.
- d) A and R both are true and R is not the correct explanation of A.

Answer: D

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27. Rearrange the jumbled letter to make a meaningful English word and then select the one which is different.

- a) OLYBOI
- b) SRTYIHO
- c) YCEIHRTSM
- d) HISCYPS

Answer: B

- a) OLYGBOI → BIOLOGY
- b) SRTYIHO → HISTORY
- c) YCEIHRTSM → CHEMISTRY
- d) HISCYPS → PHYSICS

All options except b) are studied as science subjects.

28. In this question, two statements are given followed by two conclusions. Choose the conclusion(s) which best fit(s) logically.

Statement:

Eating nutritious food is the only way to keep a Doctor away.

Conclusions:

- I. Doctors will be out of job soon.
- II. Junk food is one of the main sources of employment of Doctors.

Choose the correct alternative.

- a) Only conclusion II follows
- b) Only conclusion I follows
- c) Neither I nor II follows
- d) Both I and II follow

Answer: C

29. WISDOM is coded as YLXKZZ. How is BRAIN coded as on that language?

- a) DUPFY
- b) DUFY

c) DFUPY

d) DFPUY

Answer: B

$$W + 1 = Y$$

$$B + 2 = D$$

$$I + 3 = L$$

$$R + 3 = U$$

$$S + 5 = X$$

$$A + 5 = F$$

$$D + 7 = K$$

$$I + 7 = P$$

$$O + 11 = Z$$

$$N + 11 = Y$$

$$M + 13 = Z$$

30. An assertion (A) and a reason (R) are given below.

Assertion (A): The sales of mobile phones has increased manifold in recent times.

Reason (R): The craze for e-commerce drives mobile sales.

Choose the correct option.

- a) A is true but R is false.
- b) A is false but R is true.
- c) A and R both are true and R is the correct explanation of A.
- d) A and R both are true and R is not the correct explanation of A.

Answer: B

Mathematics

1. By selling an article at Rs. 2600, a shopkeeper makes a profit of 30%. Find cost price of an article.

- a) Rs. 2000
- b) Rs. 2500
- c) Rs. 2400
- d) Rs. 1800

Answer: A

$$\text{Profit \%} = (\text{SP} - \text{CP}) / \text{CP} \times 100$$

$$30 = (\text{SP} / \text{CP} - 1) \times 100$$

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$$30/100 = (SP/CP - 1)$$

$$3/10 = (2600/CP - 1)$$

$$1 + 3/10 = 2600/CP$$

$$13/10 = 2600/CP$$

$$\text{Cost Price} = 2000$$

2. Simplify: $(4 + \sqrt{2})/(\sqrt{2} - 1)$.

a) $5\sqrt{2} + 3$

b) $5\sqrt{2} + 6$

c) $5\sqrt{2} - 6$

d) $5\sqrt{2} - 3$

Answer: B

$$(4 + \sqrt{2})/(\sqrt{2} - 1)$$

On Rationalizing

$$= (4 + \sqrt{2})/(\sqrt{2} - 1) \times (\sqrt{2} + 1)/(\sqrt{2} + 1)$$

$$= \{(4 + \sqrt{2}) \times (\sqrt{2} + 1)\} / \{2 - 1\}$$

$$= (4\sqrt{2} + 2 + \sqrt{2} + 4)/1$$

$$= 5\sqrt{2} + 6$$

3. $a/b = 3/4$, find the value of $(5a - 3b)/(7a + 2b)$.

a) $8/27$

b) $3/5$

c) $3/29$

d) $2/15$

Answer: C

$$a/b = 3/4$$

$$a = 3/4 \times b$$

$$(5a - 3b)/(7a + 2b)$$

$$= (5 \times 3/4 \times b - 3b)/(7 \times 3/4 \times b + 2b)$$

$$= (15b/4 - 3b)/(21b/4 + 2b)$$

$$= (15b - 12b)/(21b + 8b)$$

$$= 3b/29b$$

$$= 3/29$$

4. Find the HCF of 12×15 , 15×21 and 21×13 .

a) 1

b) 2

c) 4

d) 3

Answer: D

$$\text{HCF of } 12 \times 15, 15 \times 21 \text{ and } 21 \times 13 = 3$$

5. A can complete the work in 6 days, B can complete the work in 12 days and C can complete the work in 24 days. In how many days A, B and C can complete the same work.

a) $24/7$ days

b) $24/11$ days

c) $12/7$ days

d) $13/7$ days

Answer: A

$$\text{A's one day work} = 1/6$$

$$\text{B's one day work} = 1/12$$

$$\text{C's one day work} = 1/24$$

$$\text{(A + B + C)'s one day work} = 1/6 + 1/12 + 1/24$$

$$= (4 + 2 + 1)/24$$

$$= 7/24$$

(A + B + C) can complete the work in $24/7$ days.

6. Find even and odd factor of 120.

a) 10 and 4

b) 12 and 4

c) 15 and 3

d) 11 and 4

Answer: B

$$120 = 24 \times 5 = 2^3 \times 3 \times 5$$

$$\text{Total Factor} = 4 \times 2 \times 2 = 16$$

$$\text{Even factor} = 12$$

$$\text{Odd factor} = 4$$

7. Sita can complete the work in 20 hours and Reeta can complete the work in 30 hours. How many hours they together take to complete the work.

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- a) 17 hour
- b) 15 hour
- c) 12 hour
- d) 14 hour

Answer: C

Sita one hour work = $1/20$

Reeta one hour work = $1/30$

Sita and Reeta one hour work = $1/20 + 1/30$

$$= (3 + 2)/60$$

$$= 5/60$$

$$= 1/12$$

Sita and Reeta can complete the work in 12 hour.

8. $x + 1/x = 2$. Find the value of $x^2 + 1/x^2$.

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

Answer: D

$$x + 1/x = 2$$

Squaring both the sides

$$(x + 1/x)^2 = 2^2$$

$$x^2 + 1/x^2 + 2 = 4$$

$$x^2 + 1/x^2 = 4 - 2$$

$$x^2 + 1/x^2 = 2$$

9. Find the number of factors of $2^2 \times 3^1 \times 5^2 \times 7^1$ which is divisible by 50 not by 100.

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

Answer: C

$$2^2 \times 3^1 \times 5^2 \times 7^1$$

$$= 1 \times 2 \times 1 \times 2$$

$$= 4$$

10. How many poles a train crosses when travelling with a speed of 45 kmph in 4 hour. If the distance between two poles is 50 m and poles are counting from starting.

- a) 1000
- b) 3600
- c) 3000
- d) 1800

Answer: B

$$\text{Distance} = \text{Speed} \times \text{Time} = 45 \times 4 = 180 \text{ km} = 180000 \text{ m}$$

$$\text{No. of poles} = 180000/50 = 3600$$

11. A merchant makes a profit of 20% after giving a 5% discount. How much percent is markup more than cost price?

- a) 12.32%
- b) 20.36%
- c) 26.30%
- d) 5.26%

Answer: C

$$\text{MP/CP} = (100 + 20)/95 = 120/95 = 24/19$$

$$\% \text{Markup} = 5/19 \times 100 = 26.30\%$$

12. A principal is $8/5$ times in 5 years at simple interest, find the rate of interest.

- a) 5%
- b) 8%
- c) 12%
- d) 10%

Answer: C

$$R = (n - 1)/T \times 100$$

$$= (8/5 - 1)/5 \times 100$$

$$= 3/25 \times 100$$

$$= 3 \times 4$$

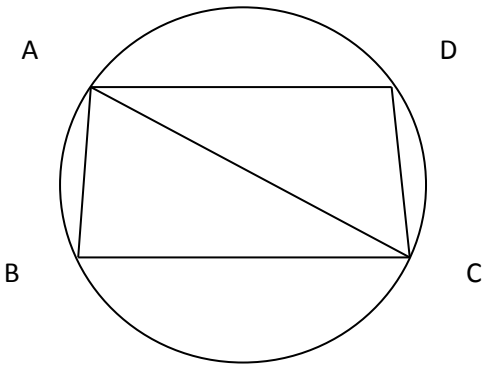
$$= 12\%$$

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13. A cyclic quadrilateral ABCD is drawn inside the circle. AC is diagonal and $\triangle ABC$ is equilateral triangle. Find $\angle ADC$.

- a) 150°
- b) 120°
- c) 60°
- d) 180°

Answer: B



$\triangle ABC$ is equilateral triangle
 $\angle ABC = \angle BAC = \angle CBA = 60^\circ$

In cyclic quadrilateral,

$$\begin{aligned} \angle B + \angle D &= 180^\circ \\ 60^\circ + \angle D &= 180^\circ \\ \angle D &= 180^\circ - 60^\circ \\ \angle D &= 120^\circ \end{aligned}$$

14. A trader makes a profit equal to the cost price of 11 articles when he sold 55 of the articles. What % profit did he make in the transaction?

- a) 8%
- b) 12%
- c) 18%
- d) 20%

Answer: D

$$\begin{aligned} \text{Profit} &= \text{SP} - \text{CP} \\ 11 \text{ CP} &= 55 \text{ SP} - 55 \text{ CP} \\ 66 \text{ CP} &= 55 \text{ SP} \\ \text{SP/CP} &= 66/55 \\ \text{SP/CP} &= 6/5 \end{aligned}$$

$$\begin{aligned} \text{Profit \%} &= (\text{SP} - \text{CP})/\text{CP} \times 100 \\ &= (\text{SP}/\text{CP} - 1) \times 100 \\ &= (6/5 - 1) \times 100 \\ &= 100/5 \\ &= 20\% \end{aligned}$$

15. Ratio of total surface area of sphere is 1 : 4. Find the ratio of volume of sphere.

- a) 1 : 64
- b) 1 : 4
- c) 1 : 16
- d) 1 : 8

Answer: D

$$\begin{aligned} \text{TSA}_1 : \text{TSA}_2 &= 1 : 4 \\ 4\pi r_1^2 : 4\pi r_2^2 &= 1 : 4 \\ r_1^2 : r_2^2 &= 1 : 4 \\ r_1 : r_2 &= 1 : 2 \\ V_1 : V_2 &= 4/3\pi r_1^3 : 4/3\pi r_2^3 \\ V_1 : V_2 &= r_1^3 : r_2^3 = 1^3 : 2^3 = 1 : 8 \end{aligned}$$

16. In an election a candidate get 37% vote and difference between win and loss candidates is 5,20,000. Find the total vote.

- a) 5 lakhs
- b) 4 lakhs
- c) 2 lakhs
- d) 3 lakhs

Answer: C

$$\begin{aligned} \text{Let the total vote be } x, \\ \text{According to the question,} \\ 63\% \text{ of } x - 37\% \text{ of } x &= 520000 \\ 26\% \text{ of } x &= 520000 \\ 26/100 \times x &= 520000 \\ x &= 20,00,000 \end{aligned}$$

17. If $\sqrt{2916} = 54$, then find $\sqrt{29.16} + \sqrt{0.2916} + \sqrt{0.002916} + \sqrt{0.00002916}$.

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- a) 5999.4
- b) 5.9994
- c) 59.994
- d) 599.94

Answer: B

$$\begin{aligned} &\sqrt{29.16} + \sqrt{0.2916} + \sqrt{0.002916} + \sqrt{0.00002916} \\ &= 5.4 + 0.54 + 0.054 + 0.0054 \\ &= 5.9994 \end{aligned}$$

18. Simplify: $[12 - \{7 - \{3 - (8 - 5 + 4)\}\}]$.

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

Answer: A

$$\begin{aligned} &[12 - \{7 - \{3 - (8 - 5 + 4)\}\}] \\ &= [12 - \{7 - \{3 - 7\}\}] \\ &= [12 - \{7 - \{-4\}\}] \\ &= [12 - \{7 + 4\}] \\ &= 12 - 11 \\ &= 1 \end{aligned}$$

19. Find the compound ratio of $45/75$, $3/5$, $51/68$ and $256/81$.

- a) $286/300$
- b) $263/300$
- c) $256/300$
- d) $250/300$

Answer: C

$45/75$, $3/5$, $51/68$ and $256/81$

$$= 3/5, 3/5, 3/4 \text{ and } 256/81$$

$$\text{Compound Ratio} = (3 \times 3 \times 3 \times 256) / (5 \times 5 \times 4 \times 81)$$

$$= (27 \times 256) / 8100$$

$$= 256/300$$

20. The Perimeter of a rectangle is 98 cm and length is 27 cm. Find its breadth.

- a) 10 cm
- b) 20 cm
- c) 11 cm
- d) 22 cm

Answer: D

$$\text{Perimeter of Rectangle} = 98$$

$$2(l + b) = 98$$

$$(l + b) = 98/2$$

$$(l + b) = 49$$

$$b = 49 - l$$

$$b = 49 - 27$$

$$b = 22 \text{ cm.}$$

21. The Sum of all internal angles of a polygon is twice the sum of all external angles. Find the number of sides.

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

Answer: B

According to the question,

$$I = 2E$$

$$(2n - 4) \times 90^\circ = 2 \times 360^\circ$$

$$(2n - 4) = 2 \times 4$$

$$2n - 4 = 8$$

$$2n = 8 + 4$$

$$2n = 12$$

$$n = 12/2$$

$$n = 6$$

22. The average of 7 numbers is 30. If the average of first three numbers is 25 and that of last three numbers is 35, then what is the fourth number?

- a) 30
- b) 35
- c) 37.5

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d) 40

Answer: A

Average of 7 numbers = 30

Sum of 7 numbers = $30 \times 7 = 210$

Average of 3 numbers = 25

Sum of 3 numbers = $25 \times 3 = 75$

Average of last 3 numbers = 35

Sum of last 3 numbers = $35 \times 3 = 105$

Fourth number = $210 - 75 - 105$

= $210 - 180$

= 30

23. What will be the compound interest on a sum of Rs.

20,000 after 2 years at the rate of 8%?

a) Rs. 5639

b) Rs. 3328

c) Rs. 3569

d) Rs. 4233

Answer: B

CI = $20000(1 + 8/100)^2 - 20000$

= $20000(1 + 2/25)^2 - 20000$

= $20000(27/25)^2 - 20000$

= $20000 \times (729/625 - 1)$

= $20000 \times 104/625$

= 3328

24. How many numbers are there between 1 and 100

which is divisible by 6 and 8?

a) 2

b) 3

c) 4

d) 5

Answer: C

LCM of 6 and 8 = 24

Last digit = $100/24 \approx 4$

Numbers = $4 - 1 + 1 = 4$

25. $\cot \theta + \tan \theta = 6$. Find the value of $\tan^2 \theta + \cot^2 \theta$.

a) 34

b) 36

c) 38

d) 40

Answer: A

$\cot \theta + \tan \theta = 6$

Squaring both the sides,

$(\cot \theta + \tan \theta)^2 = 6^2$

$\tan^2 \theta + \cot^2 \theta + 2 = 36$

$\tan^2 \theta + \cot^2 \theta = 36 - 2$

$\tan^2 \theta + \cot^2 \theta = 34$

26. Find the sum of $2/5$ and $5/2$.

a) $12/10$

b) $21/10$

c) $9/10$

d) $29/10$

Answer: D

$2/5 + 5/2$

= $(4 + 25)/10$

= $29/10$

27. A car travels at the speed of 50 km/hr for the first half

of the journey and at the speed of 60 km/hr for the second

half of the journey. What is the average speed of the car

for the entire journey?

a) 54.54 km/hr

b) 36.36 km/hr

c) 50.5 km/hr

d) 45.45 km/hr

Answer: A

Average Speed = $(2 \times 50 \times 60) / (50 + 60)$

= $6000/110$

= $600/11$

= 54.54 km/hr

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28. The product of two numbers is 35828 and HCF is 26.

Find the LCM.

- a) 931788
- b) 689
- c) 1378
- d) 3583

Answer: C

$$35828 = \text{HCF} \times \text{LCM}$$

$$35828 = 26 \times \text{LCM}$$

$$\text{LCM} = 35828/26$$

$$\text{LCM} = 1378$$

29. What percent of 1 hour is 1 minute and 12 seconds?

- a) 2%
- b) 12%
- c) 10%
- d) 15%

Answer: A

$$1 \text{ min } 12 \text{ seconds} = 72 \text{ seconds}$$

$$1 \text{ hour} = 3600 \text{ seconds}$$

$$\text{Percentage} = 72/3600 \times 100 = 2\%$$

30. Ram is 4 times his son's age today. Five years hence, ram will be thrice his son's age. Find their present age.

- a) 60 and 15
- b) 40 and 10
- c) 20 and 5
- d) 32 and 8

Answer: B

Let the son age be x,

According to the question,

$$\text{Ram} = 4x$$


$$\text{Ram} + 5 = 3(x + 5)$$

$$4x + 5 = 3x + 15$$

$$4x - 3x = 15 - 5$$

$$x = 10$$

$$\text{Ram} = 4x = 4 \times 10 = 40$$



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