



SHAKTHII ACADEMY

Increasing Confidence ; Reaching Goals

RRB NTPC 30th March 2016 Shift 3

Q 1 Find the factors of $(x^2 - x - 132)$

- A. $(x - 11)(x - 12)$
- B. $(x + 12)(x - 11)$
- C. $(x + 11)(x + 12)$
- D. $(x - 12)(x + 11)$

Q 2 A college council is auditioning students for a cultural festival. They must satisfy the following criteria

1. Student must know at least one dance form.
2. Student must know to play at least one musical instrument.
3. Student must have good acting skills.

Which one of the following will the council definitely select?

- A. Z is a Bharat Natyarn dancer, a violinist but does not have any acting skills.
- B. P plays football, guitar, has acted in road shows and is a classical dancer
- C. J is a contemporary dancer, a great actor and is planning to learn flute.
- D. A plays sitar. is a hip-hop dancer and does not have any acting skills.

Q 3 If RESEARCH is \$#!#%\$&@ then SCARE

- A. !&%\$#
- B. !@%\$#
- C. !\$%#&
- D. !@%#\$

Q 4- 6 Comprehension:

The likes and professions of five friends Rosy. Mary. Lily. Andy and Daisy are given. Consider the following information and answer questions based on it.

1. Rosy likes Yellow and is a Student.
2. The Librarian likes Green.
3. Mary and Andy like Purple and Blue respectively and neither of them is a Teacher.



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4. Lily likes Brown and the Inspector likes Blue.
5. One of the five is a Principal.

Q 4 Which colour does the Teacher like?

- A. Blue
- B. Brown
- C. Purple
- D. Green

Q 5 Who is the Principal?

- A. Daisy
- B. Andy
- C. Mary
- D. Lily

Q 6 Which among the following is the wrong pair?

- A. Andy - Inspector
- B. Purple - Principal
- C. Daisy - Green
- D. Rosy-Teacher

Q₇ The standard deviation of the set {10,10,10,10, 10} is

- A. 0
- B. 1
- C. 5
- D. 10

Q 9 Karan purchased one dozen pens for Rs. 120/- and sold a pack of 3 pens for Rs. 35/- each. What is his gain?

- A. 16.67%
- B. 20%
- C. 15%
- D. 33.33%



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Q¹⁰ If Deplete : Exhaust then Replenish :

- A. Exhale
- B. Inhale
- C. Reuse
- D. Restore

Q 11 What is the noise level of normal conversation?

- A. About 60 dB
- B. About 70 dB
- C. About 80 dB
- D. About 90 dB

Q.12 Statements followed by some conclusions are given below.

Statements:

1. X is 7 meters tall. Y is half as high and Z is 3 times the height of X.
2. P is taller than Z but shorter than A and B.

Conclusions:

- I. B is the tallest of all.
- II. The average height of X, Y and Z is less than 10 meters.

Find which of the given conclusions logically follows from the given statements.

- A. Only conclusion I follows.
- B. Only conclusion II follows.
- C. Both I and II follow.
- D. Neither I nor II follows.

Q 13 G is twice as fast as S in doing work. If G can do a work in 30 days less than S. how many days will they take to complete the work together?

- A. 25
- B. 20
- C. 22
- D. 15

Q 14 What is the ratio of simple interest earned on certain amount at the rate of 12% p. a. for 9 years and that for 12 years ?

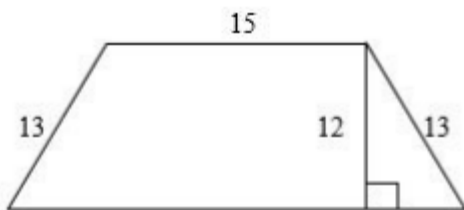


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- A. 1:2
- B. 2:3
- C. 3:4
- D. 4:5

Q 15



What is the area of this trapezoidal garden? (All measurements are in cm)

- A. 60 sq. cm
- B. 180 sq. cm
- C. 210 sq. cm
- D. 240 sq. cm

Q-17 For how many months is a cheque valid from the date of issue?

- A. 1 month
- B. 2 months
- C. 3 months
- D. 6 months

Q 18 'Ganga Action Plan' initiated by the Union Government aims at

- A. Streamlining the flow of Ganga river.
- B. Reduction of pollution on Ganga river.
- C. Efficient use of Ganga water for irrigation.
- D. Using Ganga river for generating hydel energy.

Q.19 Find the range and mode of the data 17, 18, 28, 19, 16, 18, 17, 29, 15

- A. 12 and 18
- B. 13 and 18
- C. 12 and 17



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D. 11 and 17

Q²⁰ The percentage of nitrogen in the air is about

- A. 74%
- B. 76%
- C. 78%
- D. 80%

Q²¹ K purchased a table for Rs. 11.000 and sold it for Rs. 13.500. What is his gain in percentage?

- A. 19.8%
- B. 20.6%
- C. 22.7%
- D. 22%

Q²² Shimla Agreement 1972 between India & Pakistan was signed in

- A. Barne's Court
- B. Ellerslie Building
- C. Viceregal Lodge
- D. Gorton Castle

Q²³ The value of $(\sin\theta + \cos\theta)^2 =$

- A. $1 + \sin^2\theta$
- B. $\sin^2\theta + \cos^2\theta$
- C. $1 + 2\cos\theta\sin\theta$
- D. $\cos^2\theta + 1$

Q²⁴ The instrument used to regulate temperature to a particular degree is called

- A. Thermostat
- B. Thermometer
- C. Pyrometer
- D. Thermocouple



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Q²⁵ Pressure is measured in terms of

- A. Mass & Density
- B. Work done
- C. Force and Area
- D. Force and Distance

Q.26 How many times does the number 3 occur in unit's place for numbers ranging from 1 to 100?

- A. 20
- B. 11
- C. 10
- D. 19

Q 27 Between small and large human intestine which one is longer?

- A. Small intestine
- B. Large intestine
- C. Both are equal in length
- D. Depends on male or female

28^{To} conduct detailed study into disease causing organism in livestock, Biosafety Laboratory has been setup in India at

- A. Ludhiana
- B. Bengaluru
- C. An and
- D. Allahabad

29 A pole is taller than Giraffe which is taller than a tree. A signal is shorter than a pole but taller than a building which is taller than a Giraffe. Who is the shortest?

- A. Signal
- B. Giraffe
- C. Tree
- D. Building



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Q_30 Find the missing (?) in the series

NA, PC, RE, TG, ?, XK, ZM

A. IV

B. VI

C. VII

D. VJ

Q 31 Rearrange the jumbled letters to make a meaningful word and then select the one which is different.

A. DNHA

B. EDAH

C. THEA

D. IRHA

Q 32 Sunil has a son Karna and a sister Sangeeta who is the mother of Jagdish and Vijay. Hamish is Jagdish's maternal uncle.

How is Hamish related to Karna?

A. Brother

B. Father

C. Nephew

D. Paternal Uncle

Q 33 International Maritime Organisation is concerned with

A. Air pollution.

B. Sea pollution.

C. Adulteration in food.

D. Deforestation.

Q 34 Find the G.C.F. & L.C.M. of 20 and 28

A. 20,280

B. 5,280

C. 10,140

D. 4,140

Q_35 Astrosat is India's first

A. Reconnaissance satellite



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- B. Remote sensing satellite
- C. Space observatory
- D. Communication satellite

Q 36 Ali travels a distance of 300 m in 2 minutes and 30 seconds. What is his speed in kmph?

- A. 6.9
- B. 7.1
- C. 7.2
- D. 7.3

Q₃₇ Four pairs of words are given. Find the odd one out.

- A. Chalk: Slate
- B. Pencil: Notebook
- C. Pen: Ink
- D. Sketch Pen : Drawing Book

Q₃₈ The Gandhi-Irwin pact was signed in the year

- A. 1930
- B. 1931
- C. 1932
- D. 1933

Q.39 Tvee the difference between two numbers is equal to their sum. If one number is 15, find the other number.

- A. 15
- B. 10
- C. 5
- D. 20

Q.40 The sum of three consecutive numbers is 126. Find the highest number.

- A. 41
- B. 42
- C. 43
- D. 44



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Q 41 Suriya is 25 years older than his son. In 5 years, he will be twice as old as his son. What will be Suiya's age after 3 years?

- A. 20
- B. 23
- C. 45
- D. 48

Q 42 The name of the first bank established in India was

- A. Bank of Hindustan
- B. Reserve Bank of India
- C. Imperial Bank
- D. State Bank of India

Q44 What is the 4th proportional of 3, 8, 12, ?

- A. 36
- B. 26
- C. 32
- D. 16

Q 45 Which of the following is a Space-Based Augmentation System?

- A. INSAT
- B. GAGAN
- C. GSAT
- D. SARAL

Q.46 An assertion (A) and a reason (R) are given below.

Assertion (A): Forest cover in the country has gradually decreased.

Reason (R): Encroachment by humans is one of the concerns for the forest department.

Choose the correct option.

- A. Both A and R are true and R is the correct explanation of A
- B. Both A and R are true, but R is not the correct explanation of A
- C. A is true, but R is false
- D. A is false, but R is true



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Q₄₇ If the interior angle of a polygon is 108° . then it is a

- A. Octagon
- B. Hexagon
- C. Pentagon
- D. Tetraeon

Q₄₈ Rupee sign is a

- A. Devanagari letter
- B. Roman letter
- C. Sanskrit Script
- D. A combination of Roman & Devanagari letters

Q₄₉ Which of the following does not belong to the group?

- A. Lakshadweep
- B. Puducherry
- C. Nicobar
- D. Andaman

Q₅₀ The headquarters of ISRO is located at

- A. Bengaluru
- B. New Delhi
- C. Pune
- D. Mumbai

Q₅₁ Which of the following will appear third, if they are arranged according to a dictionary?

- A. Autumn
- B. Austere
- C. Assert
- D. Auspicious

Q₅₂ If $\sin \theta = 1/\sqrt{2}$ then $(\tan \theta + \cos \theta) =$

- A. $1/\sqrt{2}$
- B. $2/\sqrt{2}$



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C. $3/\sqrt{2}$

D. $(1+\sqrt{2})/\sqrt{2}$

Q 53 The mean and median of 7, 5, 5, 2, 7, 6, 5, 3, 7, 6

A. 5.3 and 5

B. 5 and 6

C. 5 and 5.5

D. 5.3 and 5.5

Q-⁵⁴ Find the similarity in the following:

Olive Oil, Coconut Oil, Cod liver Oil, Sunflower Oil

A. All of them are vegetable oils.

B. All of them are rich in Vitamin A.

C. All of them are rich in Vitamin D.

D. All of them are oils.

Q⁵⁵ Human nails are made of

A. Pigment

B. Elastin

C. Albumin

D. Keratin

Q⁵⁶ Eastern boundary of Kashmir is

A. LOC

B. Jammu

C. POK

D. Ladakh region

The medicine paracetamol is

A. An analgesic

B. An antipyretic

C. An analgesic and antipyretic

D. A nonsteroidal anti-inflammatory drug



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Q⁵⁸ Sachin Tendulkar made his test debut in 1989 at

- A. Karachi. Pakistan
- B. Mumbai, India
- C. Kolkata, India
- D. Melbourne. Australia

Q.59 Which key on a windows keyboard sets to full screen mode in most browsers?

- A. F1
- B. F10
- C. F11
- D. F12

Q⁶⁰ The test for diagnosing HIV is

- A. Pap Smear
- B. ELISA
- C. DNA
- D. Mantoux

Q 61 B has 32 pens, 24 pencils and 16 erasers. How many sets of these three items can B make without any left over?

- A. 6
- B. 7
- C. 8
- D. 9

Q⁶² Air Quality Index is

- A. A measuring instrument of air pollution.
- B. A number.
- C. For measuring humidity level.
- D. For forecasting rain.

Q.63 Who served as the first Deputy Prime Minister of independent India?

- A. K. Kamaraj
- B. MorarjiDesai
- C. Sardar Vallabhbai Patel



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D. C. Rajagopalachari

Q_65 Secularism means

- A. Not practicing any religion.
- B. Practicing multiple religions.
- C. Freedom to join any satsang.
- D. Freedom of religion and worship.

Q66 A farmer purchased a piece of land for Rs. 18 lakh and spent Rs. 3 lakh for registration, fencing etc. He sold it for Rs. 24.57 lakh. Find his profit in percentage?

- A. 15%
- B. 14.15%
- C. 16.5%
- D. 17%

Q_67 National Science Day falls on

- A. 26th February
- B. 27th February
- C. 28th February
- D. 29th February

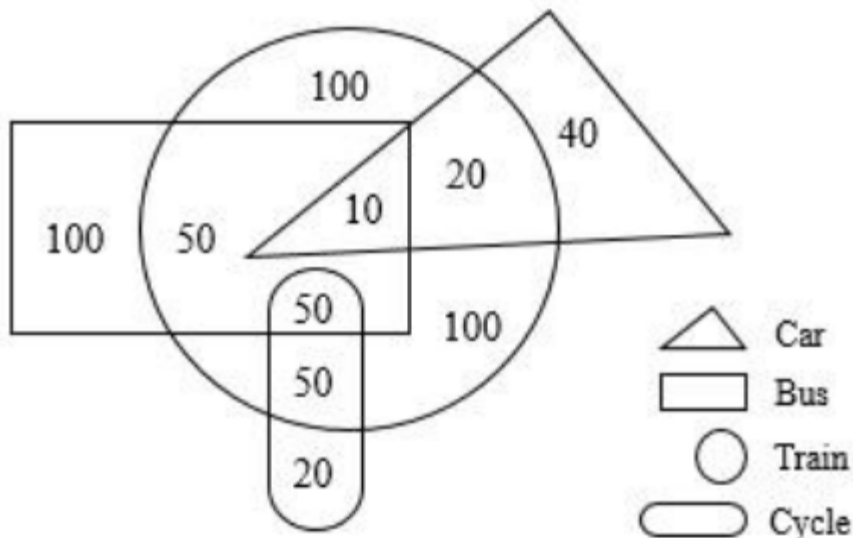
Q 68- 70 Comprehension:

Study the following diagram and answer questions based on it.



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Q.68 The ratio of total number of train travelers to the people who do not travel by train is

- ⁸ A. 27/16
B. 28/16
C. 37/16
D. 38/16

Q.69 How many people who travel by train also travel by car or bus but not cycle?

- A. 50
B. 70
C. 80
D. 100

Q.70 Which two modes of transport used by people are mutually exclusive?

- A. Car - Bus
B. Car-Cycle
C. Bus - Cycle
D. Cannot be determined

Q 71 Find the missing (?) in the series

14, 28, 42, 56, ?, 84, 98



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- A. 68
- B. 70
- C. 72
- D. 74

Q.72 After 9/11 tragedy, the rebuilt World Trade Center complex in New York is called

- A. New World Trade Center
- B. Empire State Building
- C. One World Trade Center
- D. World Trade Complex

Q_73 The famous Nek Chand's Rock Garden is located in

- A. Srinagar
- B. Jammu
- C. Chandigarh
- D. Shimla

Q_74 Expand: $(w - 9)^2$

- A. $(w^2 - 9w + 81)$
- B. $(w^2 - 9w + 18)$
- C. $(w^2 - 18w + 81)$
- D. $(w^2 - 18w - 81)$

Q 75 On a certain principal, simple interest amounts to Rs. 1,000 in 1 year at the rate of 10% p.a. What will be the effective rate of interest if the same is compounded on half yearly basis?

- A. 10.10
- B. 10.15
- C. 10.20
- D. 10.25

Q.76 In a certain code language if 41095 is READY and 840327 is FRAILS then 83145 419 is

- A. FEARY RED
- B. FIERY RED
- C. FAIRY RED
- D. FIREY RED



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Q.77 which one of the following does not belong to the group

- A. Monitor
- B. Keyboard
- C. Webcam
- D. Mouse

Q 78 If RATIONAL is CLETZYLW then EXPERIENCE

- A. OIZOCTOYMO
- B. QJBDUQZOQ
- C. OHZBSOXMO
- D. PIAPCTPYNP

Q.79 $1\$ = \text{Rs. } 67.89$. Money changer adds a margin of Rs. 1.11. What will be the cost of \$150?

- A. 10.183
- B. 10.350
- C. 10.330
- D. 10.450

Q-80 if the area of a circle is 9π sq. cm then its circumference is

- A. 9 cm
- B. 6π cm
- C. 3π cm
- D. 6 cm

Q-81 'Maharatna' refers to a group of

- A. Emerging small and medium enterprises.
- B. Central public sector enterprises.
- C. Leading private sector enterprises.
- D. Leading multi-national companies.

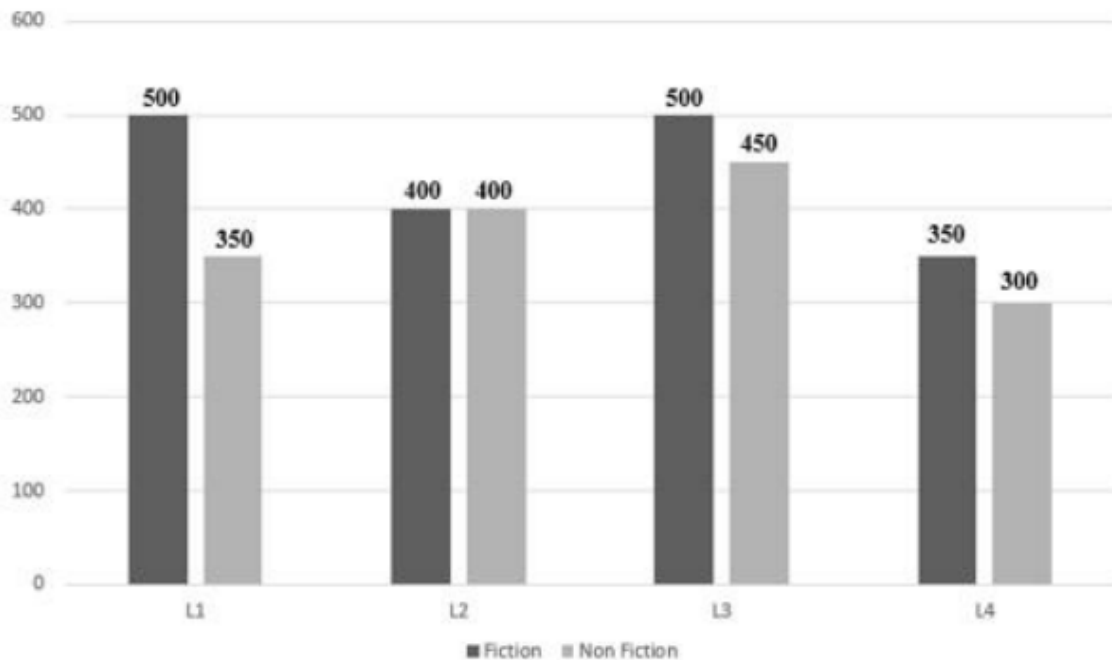
Q 82 -84 Comprehension:

The bar chart represents number of fiction and non-fiction books in four libraries LI, L2, L3 and L4. Consider the bar chart and answer questions based on it.



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Q.82 What is the percentage difference of total number of Fiction books in libraries L3 and L4 to the Non Fiction books in L3 and L4?

- A. 13.34%
- B. 11.76%
- C. 6.67%
- D. It is the same

Q.83 The ratio of total books of libraries L1 and L3 to L2 and L4 is

- A. 29/36
- B. 33/32
- C. 36/29
- D. 32/33

Q.84 The ratio of total number of Non Fiction to Fiction books in all libraries is

- A. 7/6
- B. 6/7
- C. 15/17
- D. 17/15

Q.85 Which of the following statements is true with respect to ASCII?



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- A. A programming language
- B. ASCII chart is not for decimals
- C. American security code for information interchange
- D. A character encoding scheme

Q⁸⁶ The first Olympics games was held in

- A. U. K.
- B. U. S. A.
- C. Greece
- D. Italy

Q 87 A person carries Rs. 165/- in the form of currency notes of denominations Rs. 5, Rs. 10 & Rs. 20 in the ratio of 3:2:1. What is the value of currency notes of Rs. 20 denomination?

- A. Rs. 60
- B. Rs. 100
- C. Rs. 40
- D. Rs. 80

Q.88 which of the following fractions is the highest of all?

- A. $\frac{5}{4}$
- B. $\frac{4}{3}$
- C. $\frac{3}{2}$
- D. $\frac{6}{5}$

Q 89 Name the Indian who became the CEO of Google in 2015.

- A. SatyaNadella
- B. Cyrus Mistry
- C. SundarPichai
- D. Vishal Sikka

Q⁹⁰ The periodicity of the Commonwealth games is

- A. No fixed interval
- B. 4 years
- C. 5 years



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D. 6 years

Q 91 Cricket World Cup 2023 is scheduled to be hosted by

- A. India
- B. Pakistan
- C. Sri Lanka
- D. West Indies

Q 92 Which country launched its first commercial satellite on 24th November 2015 as a part of its National Space Program?

- A. Russia
- B. India
- C. Japan
- D. China

Q 93 Which of the following is not a Union Territory?

- A. Puducherry
- B. Chandigarh
- C. Lakshadweep
- D. Sikkim

Q.94 If '+' and '÷'; 'x' and are interchanged in the equation: $17 \div 7 - 27 + 7 \times 37$. then its value will be

- A. 7
- B. 17
- C. 27
- D. 37

Q 95 If the mathematical operator + means division, - means multiplication, x means subtraction and ÷ means addition, then the value of

$1 \times 7 + 21 \times 2 \div 2 + 3 - 4$ is

- A. 8/3
- B. 4/3



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C. $-\frac{4}{3}$

D. $-\frac{8}{3}$

Q.96 10 people can do a work in 30 days. In how many days, can 15 people complete double the work?

A. 20

B. 25

C. 40

D. 45

Look carefully at the sequence of symbols to find the pattern.



Which of the following will replace the (?) in the sequence?

A.



B.

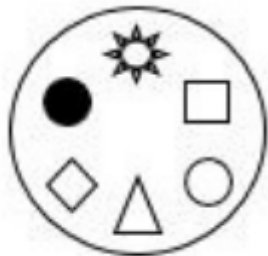




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C.



D.



Q.98 Statements followed by some conclusions are given below.

Statements:

1. Most people have orange scooters while some have red ones.

Q98 People like bright coloured scooters.

Conclusions:

I. People cannot afford bright coloured cars.

II. Most people prefer orange over other bright colours.

Find which of the given conclusions logically follows from the given statements.

A. Only conclusion I follows.

B. Only conclusion II follows.

C. Both I and II follow.

D. Neither I nor II follows.

Q 99 Which of the following is not a bleaching agent?

A. Sodium hypochlorite

B. Calcium hypochlorite

C. Hydrogen peroxide

D. Hydrogen sulphide

Q.100 Which movement was called off following the violence at 'Chauri Chaura' incident?

A. Khilafat Movement

B. Quit India Movement



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C. Non co-operation Movement

D. Home Rule Movement



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