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Elementary statistics Questions For Railway Exams

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Page 1 of 14

-1-

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Elementary statistics Questions for RRB NTPC Exams

1) Which of the following relation is true?	c) 10
a) Mode = Median – Mean	d) 1
b) Mode = 3Median + 2Mean	6) Find the mode of 2,12,15,2,14,2,10,2 ?
c) Mode = 3Median – Mean	a) 10
d) Mode = 3 Median - 2 Mean	b) 12
2) Find the mean of the prime numbers between 9 and	c) 2
50?	d) None of these
a) 60	7) Find the mode of 1,2,3,5,4,8,7,5,1,2,5,9,15 ?
b) 30	a) 1
c) 15	b) 5
d) None of these	c) 3
3) Find the arithmetic mean of the series starting from	d) 15
1 and ending at 34 ?	8) What is the arithmetic mean of 2, 4, 6, 8,
a) 17.5	
b) 12.5	a) 55
c) 16.5	b) 45
d) None of these	c) 30
4) Find the mode of $4x$, $16x^3$, $8x^2$, $2x$ and x ?	d) 16
a) x	9) What is the arithmetic mean of 1, 2, 3, 4,
b) 1	
c) no mode	a) 100
d) 4x	b) 100.5
5) Find the median of 2 , 10 , 15 , 11 , 5 , 8 ?	c) 102.5
a) 9	d) 101.5
b) 8	
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Page 2 of 14

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10) Find the arithmetic mean of the following:	a) 2.5
x - 1, x + 1, x - 2, x + 2, x	b) 5
(a) 2x	c) 7.5
(b) x	d) 1
(c) 3x	15) What is the range of marks scored by five students
(d) 5x	in Reasoning which are as follows –
11) Find the arithmetic mean of the following:	65 , 75 , 82 , 92 and 80
x + 10, $x + 1$, $x - 20$, $x + 12$, $2 - 4x$	a) 20
(a) x	b) 25
(b) 5	c) 27
(c) 2	d) 30
(d) 1	16) What is the range of heights of ten persons in a
12) If the heights of five persons are 125 cm, 156 cm ,	family which are as follows –
175 cm , 180 cm and 175 cm then find the arithmetic	165, 175, 182, 192, 180, 170, 180, 185, 145 and 150
mean of their heights ?	cm
a) 160.5	a) 42
b) 162.2	b) 40
c) 171.5	c) 47
d) 180.5	d) 45
13) Find the mean of first five positive numbers which	17) Find the mean of the smallest triplet of right angle
are divisible by 2 and 3 both?	triangle ?
a) 9	a) 4
b) 21	b) 5
c) 15	c) 3
d) 18	d) 12
14) The value of mode is 10 and median is 5. Find the	18) Find the median of 5.25, 2.50, 1.50, 4.50 and 5?
value of mean?	a) 5.25

Page 3 of 14

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b) 4.50	c) 13
c) 5.0	d) 12
d) None of these	23) Find the median of 26, 24, 27, 30, 32, 40 and 12.
19) Find the median of the following :-	a) 31
x - 1, x + 2, x - 10, x + 9, x	b) 27
(a) 2	c) 28
(b) 1	d) 30
(c) 2x	24) The wickets taken by a bowler in 12 cricket
(d) x	matches are as follows:
20) What is the arithmetic mean of 1, 2, 3, 4,	3, 7, 5, 4, 6, 1, 4, 3, 2, 4, 3, 4
	Find the mode of this distribution.
a) 50	a) 4
b) 25	b) 1
c) 25.5	c) 2
d) 27.5	d) 5
21) Find the median of the numbers 6, 18, 69, 18, 33,	25) Find the median of the data -2, 5, 1, 5, -1, -4, 2, 8,
46, 65, 38, 94, 46, 79, 33, 36 and 46.	11, 6.
a) 41	a) 2
b) 44	b) 3.5
c) 42	c) 2.75
d) 43	d) 3
22) Following are the points obtained by a Kabaddi	26) The median of the following terms 33, 13, 24, 18,
team in a series of matches.	29, 26, 44 was determined:
16, 1, 6, 26, 14, 4, 13, 7, 9, 23, 47, 9, 7, 6, 17, 27	Later it was found that 18 was written by mistake
Find the median of the marks obtained by the team.	instead of 30, now what will be the changed median?
a) 11	a) 29
b) 14	b) 21

Page 4 of 14

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c)	28						a) 56
d) 26							b) 77
27) Find the mode of this distribution.							c) 39
26	6, 46, 59, 88,	, 46, 55, 66	5, 13, 26	, 60, 43,	61		d) 81
a)	55, 26						31) 5 out of 6 cricketers have played 12, 13, 9, 5, 11
b)	25, 45						innings respectively. If the mean of the data set is 9,
c)	26, 46						then the number of innings played by that 6th player
d)	46, 55						is.
28	8) Find the n	node of 1,1	1/2,1/2,3	/4,1/4,2,	1/2,1/4,	2/4.	a) 7
a)	1/4						b) 9
b)	1/2						c) 4
c)	3/4						d) 5
d)	1						32) Find the range of the figures 10, 6, 10, 4, 5, 8, 9, 5,
29) The detai	ls of the n	umber	of perso	ons taki	ng loans	9, 10, 6, 10.
from the bank are given below based on the interval of					n the in	terval of	a) 3
their age group.							b) 5
	age	20-30	30-	40-	50-	60-70	c) 6
	group		40	50	60		d) 4
	Number	37	40	60	50	13	33) Find the range of the first 7 prime numbers.
	of person						a) 16
Fi	ind the mod	e.				11	b) 7
a)	44.33						c) 9
b) 46.67							d) 15
c) 32.64							34) Find the median, mode and mean of 10, 6, 9, 10, 10,
d) 30.21							8, 9, 10, 9.
3()) If the sta	ndard de	viation	of the p	populat	ion is 9,	a) 8, 10, 9
w	what will be the variance of the population?						b) 9, 9, 8
							I

Page 5 of 14

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c) 9, 10, 9	b) 16
d) 9, 9, 9	c) 20
35) The mean of a distribution is 14 and the standard	d) 10
deviation is 7. What is the value of variance	39) The variance of 6 values is 64. If each value is
coefficient?	doubled, find the standard deviation.
a) 50%	a) 16
b) 65.74%	b) 11
c) 52.84%	c) 13
d) 72%	d) 17
36) The average of the results of 35 tests is 20. The	40) The mean of the figures 1, x, 6, 4, y, 9, 7 is 6, where
average of the first 17 results is 18 and the average of	x and y are constant. If x is replaced by 3x + 2 and y is
the last 17 is 22. What is the value of the result of the	replaced by $y + 2$, the mean 2 increases. Find the value
18th test?	of x –
a) 36	a) 6
b) 20	b) 9
c) 42	c) 7
d) 29	d) 5
37) If the mean value of the height of 22 men is 1.65	41) The arithmetic mean of a set of numbers is 24. The
meters and the mean height of 8 women is 1.50 meters.	mean of another set of numbers is 30. If the combined
Then what is the sum (in meters) of the total length of	mean of both sets is 25, what will be the ratio of
8 women?	frequency of the two groups?
a) 17	a) 4: 3
b) 12.6	b) 5: 1
c) 13.5	c) 2: 3
d) 12	d) 5: 4
38) Find the range of 11, 22, 6, 2, 4, 18, 20, 3.	
a) 13	
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Page 6 of 14

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42) Find the median of	66, 33	8, 56,	31, 1	1, 91	, 50,	61, 61,	c) 82		
56, 92 and 5.				d) 32					
a) 56.5						46) Arithmetical mean of series y_1 , y_2 , $y_3 + \cdots + y_n$ is 1,			
b) 32							then find the arithmetical mean of		
c) 56							$y_1/m, y_2/m, y_3/m, \dots, y_n/m (m>0)$		
d) 62							a) 1/m		
43) The mean of the d	ligits v	will b	e bas	sed o	on th	e data	b) m		
given below:							c) 2m		
Score	0	2	4	6	8	16	d) m/2		
Number of	6	5	4	3	2	5	47) Find the median of the prime numbers from 1 to		
students							55?		
a) 6.3							a) 22		
b) 5.6				b) 20					
c) 3.5						c) 21			
d) 4.2						d) 19			
44) The mean of 21 observations (all different) is 60. If				iffere	ent) is	48) Find the mean of the first 10 numbers in the			
the value of the median is increased to 21, then the			1, th	Fibonacci series:					
value of the observations increases, the mean of the			iean	A Fibonacci number is the sum of the last two numbers					
observations will be:						in that series. The first two Fibonacci numbers are 0			
a) 50						and 1 respectively.			
b) 50.5							a) 4		
c) 30							b) 3		
d) 45						c) 5			
45) Mean of an observa	ation s	et x1,	X2	X1	o is 4(). Find	d) 4.5		
out mean of $x_1 + 4$, $x_2 +$	8	.X10 +	40.				49) Find the mode of 12, 1, 10, 1, 9, 3, 4, 9, 7, 9.		
a) 62							a) 10		
b) 52							b) 12		
							1		

Page 7 of 14

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c) 9	a) 4, 6
d) 7	b) 4, 9
 c) 9 d) 7 50) If the mean of 3, 4, a, b, 10 is 6 and the median is 4 	c) 4, 7
and a <b, a="" and="" and<="" are="" b="" of="" th="" the="" then="" values=""><th>d) 4, 5</th></b,>	d) 4, 5
respectively.	

ANSWER

1) Answer: D	4) Answer: C
We know that:	Mode = "The number which appears most of the times
Mode = 3Median - 2Mean	in a series".
2) Answer: B	Series = $4x$, $16x^3$, $8x^2$, $2x$ and x
Prime numbers = 11, 13, 17, 19, 23, 29, 31, 37, 41,	Mode = no mode
43 , 47 , 49	5) Answer: A
Total terms $= 12$	Series = 2, 10, 15, 11, 5, 8
Total sum = 360	Median = "The median is the middle number or the
Mean = (Total sum)/(Number of terms)	average of middle numbers in a sorted, ascending or
Mean = 360/12	descending, list of numbers "
Mean $= 30$	Sorted series = 2, 5, 8, 10, 11, 15
3) Answer: A	Median = $(8 + 10)/2$
Series = 1,2,3	Median = 9
Total number of term $(n) = 34$	6) Answer: C
First term $(a) = 1$	Mode = "The number which appears most of the times
Difference $(d) = 1$	in a series".
Sum = n x $[2a + (n-1)d] / 2$	Series = 2, 12,15,2,14,2,10,2
Sum = 17 x 35	Mode = 2
Sum = 595	7) Answer: B
Arithmetic mean= Sum/Total numbers = 595/34=17.5	

Page 8 of 14

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Mode = "The number which appears most of the times	Total no. of terms $= 5$
in a series".	Mean = Sum/total no. of terms
Series = 1,2,3,5,4,8,7,5,1,2,5,9,15	Mean = 5/5
Mode = 5	Mean = 1
8) Answer: D	12) Answer: B
First term $(a) = 2$	Observations: 125 cm , 156 cm , 175 cm , 180 cm and 175
Last term $(l) = 30$	cm.
this is a series of consecutive even numbers.	Sum = 811
So, mean = $(a+1)/2$	Total observation $= 5$
=(2+30)/2	Mean = Sum of observation/total observation
= 16	(1)
9) Answer: B	Mean = 811/5
Total terms $= 200$	Mean = 162.2
First term $= 1$	13) Answer: D
Last term $= 200$	First five numbers divisible by 2 and $3 = 6$, 12, 18, 24
mean = (1+200)/2	and 30
= 100.5	Sum of observations $= 90$
10) Answer: B	Total observations $= 5$
Series = $x - 1$, $x + 1$, $x - 2$, $x + 2$, x	Mean = Sum of observations/Number of observations
Sum = 5x	Mean = 18
Total terms $= 5$	14) Answer: A
Mean = Sum/total no. of terms	Mode = 3Median - 2Mean
Mean = 5x/5	$2Mean = 3 \times 5 - 10$
Mean = x	Mean = 2.5
11) Answer: D	15)Answer: C
Series = $x + 10$, $x + 1$, $x - 20$, $x + 12$, $2 - 4x$	Range = Highest observation – Lowest observation
Sum = 5	(1)

Page 9 of 14

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Median = "The median is the middle number or the Highest observation = 92Lowest observation = 65average of middle numbers in a sorted, ascending or Range = 92 - 65decending list of numbers. " Sorted series = x - 10, x - 1, x, x + 2, x + 9Range = 2716) Answer: C Median = xRange = Highest observation - Lowest observation 20) Answer: C(1) First term = 1Highest observation = 192Last term = 50Lowest observation = 145Mean = (1+50)/2Range = 192 - 145= 25.521) Answer: C Range = 4717) Answer: A Writing numbers in ascending order -Smallest triplet = 3, 4, 5. 6, 18, 18, 33, 33, 36, 38, 46, 46, 46, 65, 69, 79, 94 Total observation = 3Number of term =14 (Even) Median = $1/2[n/2^{th} term + (n/2+1)^{th} term]$ Sum of observation = 12 $= 1/2(7^{\text{th}} \text{ term} + 8^{\text{th}} \text{ term})$ Mean = Sum of observation/number of observation Mean = 12/3= 1/2 [38 + 46] = 42Mean = 422) Answer: A 18) Answer: B On writing the digits in ascending order -Series = 5.25, 2.50, 1.50, 4.50 and 5 1, 4, 6, 6, 7, 7, 9, 9, 13, 14, 16, 17, 23, 26, 27, 47 Median = "The median is the middle number or the Total number of terms (n) = 16 is even. Median = $[(n/2)^{th}$ term + $(n/2+1)^{th}$ term]÷2 average of middle numbers in a sorted, ascending or descending list of numbers. " =(9+13)/2=22/2=11Sorted series = 1.50, 2.50, 4.50, 5.0, 5.25 23) Answer: B Median = 4.50Writing in ascending order 19) Answer: D 12, 24, 26, 27, 30, 32, 40 Series = x - 1, x + 2, x - 10, x + 9, xNumber of terms = 7 (Odd)

Page 10 of 14

3

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 \therefore Median = ((7+1)/2) th term = 4 th term = 27

24) Answer: A

Mode means that the number has come more often or has a higher frequency. Hence the frequency of 4 is more in the given data.

 \therefore Mode of data = 4

25) Answer: B

Writing data in ascending order -

-4, -2, -1, 1, 2, 5, 5, 6, 8, 11

n = 10 (Even)

 $\therefore \text{ Median} = 1/2 [n/2^{\text{ th}} \text{ term} + (n/2+1)^{\text{th}} \text{ term}]$

 $=1/2[5^{\text{th}} \text{term} + 6^{\text{th}} \text{term}]$

 $=1/2 \times [2+5] = 3.5$

26) Answer: A

Arranged in ascending order,

13, 24, 26, 29, 30, 33, 44

n = 7 (odd)

Median = $((n+1)/2)^{\text{th}}$ term

 $= ((7+1)/2)^{\text{th}} \text{term}$

 $=4^{\text{th}} \text{term} = 29$

27) Answer: C

Given data- 26, 46, 59, 88, 46, 55, 66, 13, 26, 60, 43, 61 Maximum score of 26 is 2 times and maximum score of 46 is 2 times. Hence desired mode is 26, 46.

28) Answer: B

 \therefore The frequency of 1/2 is the highest (3) in the data.

•	Mode	= 1/2	

29) Answer: B

age	Number of
group	person
20-30	37
30-40	40
40-50	60 mode
	group
50-60	50
60-70	13

Here -L = Lower limit of mode group = 40 F_1 = Number of mode group = 60 F_0 = Number of group above mode group = 40 f_2 = Number of persons below group of mode group = 50 i = High limit - Lower limit (quadratic) = 10mode (z) = L + (f₁ - f₀)/(2f₁ - f₀ - f₂) × I $=40 + ((60 - 40)/120 - 40 - 50) \times 10$ $=40 + (20/30) \times 10$ =40+6.67=46.6730) Answer: D Standard deviation of population = 9Population variance = $(Standard deviation)^2 = (9)^2 = 81$ 31) Answer: C Total number of innings played by all five players = 6×9 = 54 Total number of innings of four players = 12 + 13 + 9 + 5+11 = 50

Page 11 of 14

-1-

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\therefore Total number of fifth player's innings = $54 - 50 = 4$	Value of 18th test = $700 - 306 - 374 = 20$
32) Answer: C	37) Answer: D
Range of the figures = Highest value - Lowest value = 10	Total sum = Number \times Mean
-4 = 6	Total length of 8 women = $8 \times 1.50 = 12.0$ m.
33) Answer: D	38) Answer: C
First 7 prime number = 2, 3, 5, 7, 11, 13, 17	Range of number = High limit - Lower limit
Range = maximum number - minimum number	= 22 - 2 = 20
Range = $17 - 2 = 15$	39) Answer: A
34) Answer: C	Variance = σ^2
Writing data in ascending order,	Standard deviation = $\sqrt{(\sigma^2)} = \sqrt{64}$
6, 8, 9, 9, 9, 10, 10, 10, 10	Standard deviation $= \sigma = 8$
\therefore Number of term = 9 (odd)	New standard deviation = $\lambda \sigma$ (where λ = n times each
$\therefore \text{ Median} = ((n+1)/2)^{\text{th}} \text{ term}$	value)
$= (9 + 1)/2 = 5^{\text{th}} \text{ term} = 9$	$= 2 \times 8$
Mode = 10 (Most often involved.)	= 16
Mean = (6 + 8 + 9 + 9 + 9 + 10 + 10 + 10 + 10)/9	40) Answer: D
= 81/9 = 9	Mean = Sum of digits / Sum of number
35) Answer: A	6 = (1 + x + 6 + 4 + y + 9 + 7)/7
Variance coefficient = (Standard deviation / mean) \times 100	x + y + 27 = 42
$=(7/14)\times 100=50\%$	x + y = 15(i)
36) Answer: B	According to question,
Average of $35 \text{ tests} = 20$	(27 + 3x + 2 + y + 2)/7 = 8
Sum of 35 tests = $35 \times 20 = 700$	3x + y = 25(ii)
Average of 17 tests $= 18$	From equation (i) and (ii) -
Total sum of 17 tests = $17 \times 18 = 306$	x=5
Average of last 17 tests = 22	41) Answer: B
$Total = 17 \times 22 = 374$	
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Page 12 of 14

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Let the number of terms in the first set of numbers									Mean of 21 observations = 11
(frequency) $=$ n_1									If the value of the median is increased to 21, the value of
And the number of terms in the second set of numbers								observations increases.	
$(frequency) = n_2$									Increased value of observations = $(21-11) \times 21 = 210$
According to Question –									Mean of observations = $(1260 + 210)/21$
$\Rightarrow 24 \times n_1 + 30 \times n_2 = (n_1 + n_2) \times 25$									=(1260+210)/21=70
$\Rightarrow 24n_1 + 30n_2 = 25n_1 + 25n_2$									45) Answer: A
$\Rightarrow 30n_2 - 25n_2 = 25n_1 - 24n_1$									$(x_1 + x_2 + x_3 + \dots + x_{10})/10 = 40$
$\Rightarrow 5n_2 = n_1 \Rightarrow n_1/n_2 = 5/1$									$x_1 + x_2 + x_3 + \cdots + x_{10} = 400 \dots (i)$
Hence the ratio of frequency of both groups = $5: 1$									Then, mean = $(x_1 + 4) + (x_2 + 8) + (x_3 + 12) + \dots + (x_{10} + 12)$
42) Answer: C									40))/10
Writing the given numbers in ascending order								=(400+5(4+40))/10 [from eq. (i)]	
5,11,31,33,50, <u>56,56</u> ,61,61,66,91,92								=(400 + 220)/10 = 620/10 = 62	
Total numbers (n) = 12 Even								46) Answer: A	
Median =[$(n/2)$ th term + $(n/2+1)$ th term]/2									Mean = Sum of terms/number of terms
= (6th term +7th term)/2									$1 = (y_1 + y_2 + y_3 + \dots - y_n)/n (I)$
=(56+56)/2=56									So,
43) Answer: B									Mean = $(y_1/m + y_2/m +y_n/m)/n$
	Score(x)	0	2	4	6	8	16		Mean = $1/m (y_1 + y_2 + y_3 + \cdots + y_n)/n$
	Number of	6	5	4	3	2	5	$\sum f =$	Hence, mean =1/m
	students (f)							25	47) Answer: C
	Fx	0	10	16	1	1	80	∑fx	According to question,
					8	6		=	All prime numbers from 1 to $55 = 2, 3, 5, 7,$
								140	11, 13, 17, 19, 23, 29, 31, 37, 41, 43, 47, 53
Mean = $(\sum fx) / (\sum f) = 140/25 = 5.6$								n = 16 even	
44) A	44) Answer: A								$\therefore \text{ median} = (n/2)^{\text{th}} \text{ term} + (n/2+1)^{\text{th}} \text{ term})/2$
Total of 21 observations = $21 \times 60 = 1260$									$= (16/2)^{\text{th}} \text{ term } + (16/2+1)^{\text{th}} \text{ term})/2$

Page 13 of 14

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$= 8^{\text{th}} \text{term} + 9^{\text{th}} \text{term}$	Median = $(5 \text{ th term} + 6 \text{ th term})/2 = (3 + 5)/2 = 4$
=(19+23)/2	49) Answer: C
= 42/2	Data 12, 1, 10, 1, 9, 3, 4, 9, 7, 9 have the highest (3 times)
= 21	frequencies of 9. Hence, mode of the given data is 9.
Hence the median of the total prime numbers from 1 to 55	50) Answer: B
= 21	The mean of 3, 4, a, b, 10 is 6 and the median is 4
48) Answer: A	Mean = Sum of total numbers / total numbers
Fibonacci series = a_0 , a_1 , a_2 , a_3 , a_4	6 = (3 + 4 + a + b + 10)/5
where,	30 = 17 + a + b
$a_0 = 0$	a + b = 13
$a_1 = 1$	Median is 4 -
$a_n = a_{(n-2)} + a_{(n-1)}$	Median = $(5+1)/2$) th term = 3 rd term = a = 4
In this, the next number is sum of first two numbers	a + b = 13
So, Fibonacci numbers = 0, 1, 1, 2, 3, 5, 8, 13, 21, 34	b = 9
Number of terms (n) =10 (even)	Hence $a = 4, b = 9$
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Page 14 of 14

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