IBPS Clerk Prelims LIVE LEAK - English Answer and Solution

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

English

1.

The passage states that Netflix, Hotstar, Amazon are existing digital media platforms in India; while Watch is in the process of being launched.

The Indian Premier League (IPL) is not a media platform but a sports competition.

Therefore, the correct answer is option 3.

2.

The passage mentions that the media companies are using various technologies such as Big Data, Artificial Intelligence (AI) and Blockchain to predict and create content that consumers want.

Therefore, the correct answer is option 5.

3.

The statements A and B are supported by the passage.

But, as per the passage, Facebook is testing its dedicated video platform, "Watch", in India and not Google.

So only statement C is incorrect.

Therefore, the correct answer is option 1.

4.

After reading the passage, it is clear that it is talking about the current trends and future predictions regarding digital media platforms in India.

Therefore, the correct answer is option 3.

5.

The passage states that digital media platforms are monetised popularly through three models: premium, subscription-based and advertisement-driven.

So, all the options are correct.

Therefore, the correct answer is option 4.

6.

The passage states that the future might witness a war-like competitive environment amidst TMT ecosystems.

Therefore, the correct answer is option 2.

7.

The passage states that companies like Google, Facebook and Amazon are alike in their tech-driven nature, wide user base and ability to control content through their own platforms.

So, all the options are correct.

Therefore, the correct answer is option 5.

8.

The passage mentions that telecom companies are interested in content creation because they want to push data usage through their networks which can be achieved by engaging consumers in fresh content.

Therefore, the correct answer is option 2.

9.

According to the passage, technology can help in predicting and create content that consumers want, personalise it as per their preferences, optimise the streaming to provide a seamless user experience, and also manage transactions in a transparent manner.

Therefore, the correct answer is option 5.

10.

The passage states that almost 80% of the people in cities are consuming news on social media platforms. So, statement B is correct.

The statements A and C are not supported by the passage as correct.

Therefore, the correct answer is option 2.

11.

The error lies in part 1.

The sentence uses the plural verb **'are'**, which is incorrect here, as the noun 'Ustad Amjad Ali Khan' is singular.

None of the other parts requires a correction.

Therefore, the correct answer is option 4.

Correct sentence: Ustad Amjad Ali Khan **is** one of the most celebrated names in the field of Hindustani classical music.

12.

The error lies in part 2.

The sentence uses the adjective form 'perpetual', which is incorrect here.

Given the context, and as it is used directly before the verb, it should be in its adverb form, viz, **'perpetually'**.

None of the other parts requires a correction.

Therefore, the correct answer is option 4.

Correct sentence:

The proprietor of the lodge was a stocky old man who **perpetually** smelled like cigarettes and cheap perfume.

13.

The error lies in parts 2 and 3.

The second part uses the preposition 'to' before the verb, which is incorrect. According to the context, it should be the adverb**'too'.**

The third part uses the past participle form 'gone' after the preposition 'to'. Since it is a 'to-infinitive', the correct verb form should be the simple present tense form 'to go'.

Therefore, the correct answer is option 3.

Correct sentence:

After dancing all night, the girls were **too** tired and wanted to *go* to sleep right away.

14.

The error lies in part 3.

The sentence uses the preposition 'to' after the verb, which is not required, as per the context.

None of the other parts requires a correction.

Therefore, the correct answer is option 4.

Correct sentence:

The matron of the ladies hostel was a very peculiar character who was feared by everyone on the campus.

15.

The error lies in parts 1 and 3.

Part 1 uses the form 'on order to', which is incorrect. The correct preposition here should be **'in'** order to.

Part 3 uses the preposition 'on', which is incorrect here. It should be **'in'** a given year.

None of the other parts requires a correction.

Therefore, the correct answer is option 1.

Correct sentence:

The committee was established **in** order to maintain proper records of the financial transactions that were undertaken **in** a given year.

16.

Correct option- 2

Following are the meanings of the words:

CONTRIVED- formulated

PROBED- explore or examine (something), especially with the hands or an instrument.

DEVISED- made

UPHELD- sanctify or maintain (a custom or practice).

TREASURED- valued

DAWNED- insight

E and F have no relevant understanding of the given meaning. B again does not imply arrangement. D has nothing to do with an arranging event. This makes A and C the only answers, that is **option 4.**

Completed sentence:

A masquerade party was **contrived/ devised** as the subsequent after party which had a clause of restricted entry.

17.

Correct option- 2

Following are the meanings of the words:

REPRIMANDS- punishments

AVERSIONS- strong dislike

NEGATING- denying

ASPIRATIONS- inspirations

DRIVES- motivations

PROPAGANDA- information

A, B and C have negative meanings and do not fit in. F holds an inappropriate meaning for the given context. This makes D and E the only answers, that is **option 2.**

Completed sentence:

Aspirations/ drives are important as they keep us moving in life and when few remain unachieved, we need to accept it as being okay.

18.

Correct option- 3

Following are the meanings of the words:

FEIGN- pretend to be affected by

WINCE- reacting with a slight involuntary grimace or shrinking movement of the body.

DERAIL- haywire

NODDING- agreeing

PARADING- promoting

CRINGING- backing up from fear or disgust

A does not hold sense given the context and is not the answer. C, D, and E have negative implications and therefore go against the tone of the sentence. This makes B and F the answers, that is **option 3.**

Completed sentence:

The transgender representatives came up to the meeting and seeing people welcome them instead of **wincing/ cringing** away, was the win for the day.

19.

Correct option-1

Following are the meanings of the words:

BERATED- demeaning

HELD- caught

REVOLTED- raise a voice against an injustice.

FUMED- angered

ROSE- get up

FORCED- pushed

A does not fit in because the sentence uses 'against' and the word **berated** itself means going against. B also does not fit in meaningfully. D and F are angry emotions and does not necessarily imply action. This makes C and E the answers, that is, **option 5.**

Completed sentence:

Each time someone **revolted/ rose** against the military, they were shut down with violence and no one came up to report it.

20.

Correct option- 5

Following are the meanings of the words:

SKEWED- bad

ARCHAIC- old-fashioned

MUDDLED- chaotic

IMPROBABLE- no chance possible

SAGACIOUS- having or showing keen mental discernment and good judgement; wise or shrewd.

NEGLIGENT- ignorant

C and D do not have meanings that can be used to describe a system. E is not the appropriate adjective here. F holds somewhat relevance but not so much in comparison to A and B. This makes A and B the answers, that is **option 5.**

Completed sentence:

Constant pressure on her to adhere to the family norms as she watched her brother visibly go against all of them made her stand up against this **skewed/ archaic** system.

21.

Clearly, the word should start with a consonant sound and not with a vowel sound (a, e, i, o, u) as the article 'a' has been used before the blank. Thus, we can eliminate options 1, 2 and 5. Also, when we look into the meanings of the other two options, we can choose the most appropriate word for the blank.

Benign – gentle and not harmful

Bolstering – something that supports or strengthens

The word **benign**, when used in the blank, will provide a reasonable sense to the passage. It means that the state requires a **benign /gentle** shift in its weather to cope up with the disaster.

Therefore, the correct answer is **option 3**.

Note: Inundated – to overwhelm or quickly fill up

Agile – able to move quickly and easily

Assiduous - showing great care and attention

22.

The use of 'an' article before the blank suggests that the word should start with a vowel sound (a, e, i, o, u). Thus, we can eliminate options 2 and 4 as these start with consonant sounds (other than a, e, i, o, u)

Outpouring - a large amount of something that is received in a short period of time

Astounding – surprising or shocking

Enumerate – mention a number of things one by one.

When we use the word **outpouring** in the blank, it means that a lot of support and goodwill has been received by the state of Kerala. This fits the context well.

Therefore, the correct answer is **option 1.**

Note: **Cascading** – to fall quickly in large amounts

Myriad – a large number of something (this is used for countable nouns like people, animals, etc. and not for uncountable nouns like goodwill, support, help etc.)

23.

Option 5 can be eliminated as the word **diabolic** means evil / devilish in

nature. There is nothing evil being discussed about the floods here.

All the other options are similar in meaning. However, we need an adjective to describe the nature of the floods (and a noun cannot be used here as it will disrupt the structure of the sentence).

Catastrophic means causing severe damage. This fits the context well, making **option 1** the correct answer.

Note - The words **tragic** (and not tragedy) and **devastating** (and not devastated) could also have been a proper fit for the blank (C).

24. 4

To understand which word would fit the blank (B), let us look into the meaning of the given words:

Hindrance – something that provides obstruction or resistance to something

Benevolent – kind-hearted and helpful

Serenity – the state of being calm and peaceful

Respite – a rest or a break from something unpleasant

Allure – the quality of being exciting or attractive

The word **respite** correctly fits the context. It conveys that the **short period of break** from the heavy rainfall has helped the relief efforts.

Therefore, the correct answer is **option 4.**

25.

The sentence talks about one of the challenges the state government faces in such situations. The challenge here lies in providing food and water to people in far-flung places in several districts.

The correct word to be used here is **marooned/stranded** which means trapped in an inaccessible place.

The word **canoed** means to travel in a canoe (a narrowboat).

Mourned means to show or feel sorry for someone's loss or death.

The other options do not fit the context well.

Therefore, the correct answer is **option 2**.

26.

We first realise the topic of the given jumbled up passage to be- scientific attitude and critical thinking.

As the 1st sentence is given, **sentence D** is the 2nd sentence because it elaborates on the relevance of the topic.

Sentence E is the 3rd sentence because it delivers a deeper meaning by linking the topic to similar concepts.

Sentence B is the 4th sentence because it begins with 'critical thinking' and provides more information on it.

Sentence A is the 5th sentence as it is the continuation because it begins with 'also'.

Finally, with the help of the last sentence given, we know **sentence C** to be the 6th sentence.

Thus, **option 3** is the correct answer.

So, the correct order of sentences is 1DEBAC7

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Sentence A is the 5th sentence as it is the continuation because it begins with 'also'.

Finally, with the help of the last sentence given, we know **sentence C** to be the 6th sentence.

Thus, **option 1** is the correct answer.

So, the correct order of sentences is 1DEBAC7.

30.

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Finally, with the help of the last sentence given, we know **sentence C** to be the 6th sentence.

Thus, **option 4** is the correct answer.

So, the correct order of sentences is 1DEBAC7.

Quant

31.

Let the sum invested be = Rs. x

In case 1, Principal = Rs. x/5, Rate = 4%, Time = 2 years

We know,

Simple interest = (P × R × T)/100

SI = (x × 4 × 2)/500 = 8x/500 ----(1)

In case 2, Principal = Rs. x/6, Rate = 8%, Time = 2 years

We know,

SI = (x × 8 × 2)/600 = 16x/600 ----(2)

In case 3, Rate = 2%, Time = 2 years

Principal = x - x/5 - x/6 = 19x/30

We know,

SI = (19x × 2 × 2)/3000 = 76x/3000 ----(3)

Adding equations 1, 2 and 3, we get,

⇒ 578 = 8x/500 + 16x/600 + 76x/3000

⇒ 578 = 204x/3000

⇒ 578 = 68x/1000

⇒ x = Rs. 8500

∴ The original sum is Rs. 8500

32.

Let the number of employees be X and the initial average age be Y years.

∴ Total initial age of all employees was XY years.

As per given data,

The number of employees in the office decreased in the ratio of 7 : 6

After reduction, the number of employees would be 6X/7 ----(1)

And increased age after reduction of employee number = 22Y/21 ----(2)

Total changed age of employees = (6X/7) × (22Y/21) = 132XY/147

So, the ratio of total age before and after would be:

Initial age : Changed age = XY : (132XY/147)

⇒ 147 : 132 = 49 : 44

33.

Type 1 rice = Rs. 109 per kg

Type 2 rice = Rs. 63 per kg

SP of mixture = Rs. 72 per kg

CP of mixture = 10096 × 72 = Rs. 7510096 × 72 = Rs. 75 per kg

C.P of type 2 = 63   C.P of type 1 = 109

Rs. 75

109 - 75 = 34   75 - 63 = 12
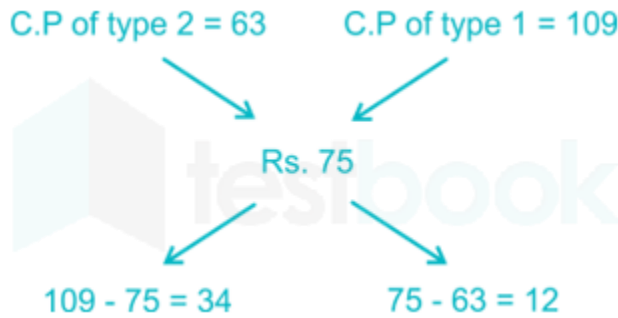
34 : 12

17 : 6

Type 1 : Type 2 = 6 : 17

34.

We know that, Average = Sum of n numbers/n

Let the number of males in the family be x.

∵ average monthly consumption of rice is 10 kg for females,

10 = Total consumption by females/4

⇒ Total consumption by females = 10 × 4 = 40

Also, the average monthly consumption of rice is 16 kg for males,

16 = Total consumption by males/x

⇒ Total consumption by females = 16 × x = 16x

Average monthly consumption of rice per head in the family = 12Kg

⇒ Total number of members = 4 + x

$$\therefore 12 = \frac{40 + 16x}{4 + x}$$

⇒ 40 + 16x = 12 × (4 + x)

⇒ 40 + 16x = 48 + 12x

⇒ 4x = 8

⇒ x = 8/4 = 2

∴ No. of males in the family = 2

35.

Let the cost price at which A bought be x.

A sold it to B with a loss of 24%

∴ $SP_1 = 76x/100$

B sold it to C at a loss of 10%

∴ $SP_2 = 90 SP_1/100 = 16416$

$16416 = (76x/100) × (90/100)$

∴ x = Rs. 24,000

Now, if SP_1 was Rs. 20,400 there would be a loss

Loss% = [(24000 - 20400)/24000] × 100 = 15%

Loss% = 15%

36.

⇒ 869.945 + $(10.041)^2$ × 65.012 - 3451.987 - $(14.985)^3$ = ?

Approximating the values to the nearest integer:

⇒ 870 + 10^2 × 65 - 3452 - 15^3 = ?

⇒ 870 + 100 × 65 - 3452 - 3375 = ?

⇒ 870 + 6500 - 3452 - 3375 = ?

⇒ 7370 - 6827 = ?

⇒ ? = 543

37.

9.897% of 4331 + 29.779% of 2501 = ?

Approximating the values to the nearest integer:

⇒ 10% of 4330 + 30% of 2500 = ?

$$\Rightarrow 10 \times \frac{4330}{100} + 30 \times \frac{2500}{100} = ?$$

⇒ ? = 433 + 750 = 1183 ≈ 1180

38.

$(10.097)^2 + (3.98)^3 \times 5.05 = 20.95 \times$?

Approximating the value to the nearest integer:

$10^2 + 4^3 \times 5 = 21 \times$ (?)

$100 + 64 \times 5 = 21 \times$ (?)

$100 + 320 = 21 \times$ (?)

$420 = 21 \times$ (?)

? = 420/21

? = 20

39.

$(1050.02 \div 34.98 + 187 \times 20.02) \div 12.95$ = ?

Approximating the value to the nearest integer:

⇒ (1050 ÷ 35 + 187 × 20) ÷ 13 = ?

⇒ (30 + 3740) ÷ 13 =?

⇒ 3770/13 = ?

⇒ ? = 290

40.

49.984% of 5085.875 - 3 ÷ 7 × 902.897 = ?

Approximating the value to the nearest integer:

⇒ 50% × 5086 - 3 ÷ 7 × 903 = ?

⇒ (50/100) × 5086 − (3/7) × 903 = ?

⇒ 2543 - 387 =?

⇒ ? = 2156

41.

First, we'll find the data from the information

Total number of students = 2550

Number of boys = (204/425) × 2550 = 1224

Number of girls = 2550 -1224 = 1326

Piano class:

Number of boys = 356

Number of girls = 356/4 = 89

Flute class:

Total students = (28/100) × 2550 = 714

Number of boys = (42/119) × 714 = 252

Number of girls = 714 -252 = 462

Oboe class:

Number of girls = (50/100) × 1326 = 663

Cello class:

Number of boys = (25/100) × 1224 = 306

Number of girls in cello = 1326 -89 -462 -663 = 112

Number of boys in oboe = 1224 -356 - 252 -306 = 310

Number of girls attending piano class = 89

Number of girls attending flute class = 462

Total number of girls = 89 + 462 = 551

42.

Number of boys in flute class = 252

Number of girls in oboe class = 663

Total = 252 + 663 = 915

43.

Number of boys in flute class = 252

Number of boys in oboe class = 310

Total = 252 + 310 = 562

Number of girls in cello class = 112

Number of boys in cello class = 306

Total = 112 + 306 = 418

Ratio = 562 : 418 = 281 : 209

44.

Number of boys in cello class = 306

Number of students in oboe and piano = 663 + 310 + 356 + 89 = 1418

Required percentage = (306/1418) × 100 = 21.58%

45.

Percentage of boys in piano class with respect to the total students in flute class = (356/714) × 100 = 49.86%

Percentage of girls in flute class with respect to total students in cello class = (462/418) × 100 = 110.53%

Difference in percentage = 110.53 - 49.86 = 60.67%

46.

According to the question,

50% girls or 25 girls get the scholarship. Thus, let x be the number of girls in the class

∴ 50% of x = 25

⇒ x = 50

Thus there are 50 girls in the class

Girls and boys are in the ratio 4 : 5. Let the total number of students in the class be y.

5y/9 = 50

y = 90

Hence, there are 90 students in the class.

47.

Total time taken = 8 hrs

The average speed is 75 km/hr

Total distance = 75 × 8 = 600 km

Distance travelled by car = 120 km

Journey on car = 3 hours

Speed of car = 120/3 = 40 km/hr

Distance travelled by train = 600 − 120 = 480 km

Time taken by train = 8 − 3 = 5 hr

Speed of train = 480/5 = 96 km/hr

Difference in speed of train and car = 96 − 40 = 56 km/hr

48.

Work done by P in one day = 1/20

∴ Work done by P in 4 days = (1/20) × 4 = 1/5

∴ Remaining Work = 1 − (1/5) = 4/5

Work done by P and Q in one day = (1/20) + (1/12) = 2/15

Now, 2/15 work is done by P and Q in one day

∴ 4/5 work will be done by P and Q $\frac{15}{2} \times \frac{4}{5}$ = 6 days

∴ No of days the work last = (6 + 4) = 10 days

49.

Let the length of faster train be x meters

Let the length of slower train be y meters

Relative distance = Relative speed × Time taken to cross/overtake

Speed of Train A = 72 km/hr = 72 × (5/18) = 20 m/sec

Speed of Train B = 54 km/hr = 54 × (5/18) = 15 m/sec

When both are going in opposite direction:

Relative speed of 2 trains = 20 + 15 = 35 m/sec

Time taken to cross = 10 sec

Total distance between both the trains = 35 × 10 = 350

When both travel in same direction

Relative speed of 2 trains = 20 − 15 = 5 m/sec

Time taken to overtake by the faster train = 45 sec

So, the faster train will cover the entire length of slower train.

Length of slower train will be = 45 × 5 = 225 = y

Total distance between both train = x + y = 350

x = 350 - 225 = 125 m

Difference = 225 - 125 = 100 m

50.

We know that, area of rectangle, A = length × breadth

∴ The area of the filed = 130 × 90 = 11700 m²

Now, a road of 15 m width is built just inside the borders of the field.

∴ the length and breadth of inner rectangle would be **15 metres less on both sides** than the outer rectangle.

∴ Length of inner rectangle = 130 − 15 − 15 = 100 m

Breadth of inner rectangle = 90 − 15 − 15 = 60 m

∴ Area of inner rectangle = 100 × 60 = 6000 m²

Now, area of road = area of rectangular field − area of inner rectangle

∴ area of road = 11700 − 6000 = 5700 m²

51.

$\Rightarrow$ 88% of 175 + 6% of 600 = ? % of 75 + 16% of 500 + 86

$\Rightarrow$ (88/100) × 175 + (6/100) × 600 = (?/100) × 75 + (16/100) × 500 + 86

$\Rightarrow$ 154 + 36 = (3/4) × ? + 80 + 86

$\Rightarrow$ 190 = (3/4) × ? + 166

$\Rightarrow$ (3/4) × ? = 190 − 166

$\Rightarrow$ (3/4) × ? = 24

$\Rightarrow$? = 24 × (4/3)

$\Rightarrow$? = 8 × 4

∴ ? = 32

52.

$\Rightarrow$ 444 ÷ 2 − 28% of 175 = ?% of 1200 − 27% of 400 − 31

$\Rightarrow$ 444 ÷ 2 − (28/100) × 175 = (?/100) × 1200 − (27/100) × 400 − 31

$\Rightarrow$ 222 − 7 × 7 = 12 × ? − 27 × 4 − 31

$\Rightarrow$ 222 − 49 = 12 × ? − 108 − 31

$\Rightarrow$ 173 = 12 × ? − 108 − 31

$\Rightarrow$ 173 = 12 × ? − 139

$\Rightarrow$ 12 × ? = 173 + 139

$\Rightarrow$ 12 × ? = 312

$\Rightarrow$? = 312/12

∴ ? = 26

53.

$\Rightarrow$ 981 ÷ 9 × 4 + 144 = 21 × 28 − ?

$\Rightarrow$ 109 × 4 + 144 = 21 × 28 − ?

$\Rightarrow$ 436 + 144 = 21 × 28 − ?

$\Rightarrow$ 436 + 144 = 588 − ?

$\Rightarrow$ 580 = 588 − ?

$\Rightarrow$? = 588 − 580

∴ ? = 8

54.

$\Rightarrow (1142 \div 2) + 189 - 66 \times 8 = 33 \times ? + 100$

$\Rightarrow 571 + 189 - 66 \times 8 = 33 \times ? + 100$

$\Rightarrow 571 + 189 - 528 = 33 \times ? + 100$

$\Rightarrow 760 - 528 = 33 \times ? + 100$

$\Rightarrow 232 = 33 \times ? + 100$

$\Rightarrow 232 - 100 = 33 \times ?$

$\Rightarrow 132 = 33 \times ?$

$\Rightarrow ? = 132/33$

∴ ? = 4

55.

$1296^{0.13} \times 1296^{0.12} = ?$

$\Rightarrow 1296^{0.13 + 0.12}$

$\Rightarrow 1296^{0.25}$

∴ $(6^4)^{0.25} = 6$

56.

I. $3x^2 - 13x + 14 = 0$

$\Rightarrow 3x^2 - 6x - 7x + 14 = 0$

$\Rightarrow 3x(x - 2) - 7(x - 2) = 0$

$\Rightarrow (3x - 7)(x - 2) = 0$

Then, x = 7/3 or x = 2

II. $2y^2 - 3y - 2 = 0$

$\Rightarrow 2y^2 - 4y + y - 2 = 0$

$\Rightarrow 2y(y - 2) + 1(y - 2) = 0$

$\Rightarrow (2y + 1)(y - 2) = 0$

Then, y = -1/2 or y = 2

So, when x = 7/3, x > y for y = -1/2 and x > y for y = 2

And when x = 2, x > y for y = -1/2 and x = y for y = 2

∴ The correct option is 3.

57.

I. $2x^2 + 3x - 2 = 0$

$\Rightarrow 2x^2 - x + 4x - 2 = 0$

$\Rightarrow x(2x - 1) + 2(2x - 1) = 0$

$\Rightarrow (2x - 1)(x + 2) = 0$

Then, x = 1/2 or x = -2

II. $2y^2 - 17y + 30 = 0$

$\Rightarrow 2y^2 - 5y - 12y + 30 = 0$

$\Rightarrow 2y(y - 5/2) - 12(y - 5/2) = 0$

$\Rightarrow (2y - 12)(y - 5/2) = 0$

Then, y = 6 or y = 5/2

When x = 1/2, x < y for y = 6 and x < y for y = 5/2

When x = -2, x < y for y = 6 and x < y for y = 5/2

∴ The correct option is 2.

58.

I. $49x^2 − 84x + 36 = 0$

$\Rightarrow 49x^2 − 42x − 42x + 36 = 0$

$\Rightarrow 7x(7x − 6) − 6(7x − 6) = 0$

$\Rightarrow (7x − 6)(7x − 6) = 0$

Then, x = + 6/7

II. $25y^2 − 30y + 9 = 0$

$\Rightarrow (5y − 3)^2 = 0$

$\Rightarrow (5y − 3)(5y − 3) = 0$

Then, y = +3/5

So, when x = +6/7, x > y for y = +3/5

∴ We can observe that x > y

59.

I. $x^2 − 6x = 7$

$\Rightarrow x^2 − 6x − 7 = 0$

$\Rightarrow x^2 − 7x + x − 7 = 0$

$\Rightarrow x(x − 7) + 1(x − 7) = 0$

$\Rightarrow (x − 7)(x + 1) = 0$

Then, x = 7 or x = -1

II. $2y^2 + 13y + 15 = 0$

$\Rightarrow 2y^2 + 10y + 3y + 15 = 0$

$\Rightarrow 2y(y + 5) + 3(y + 5) = 0$

$\Rightarrow (y + 5)(2y + 3) = 0$

Then, y = -5 or y = -3/2

So, when x = 7, x > y for y = -5 and x > y for y = -3/2

And when x = -1, x > y for y = -5 and x > y for y = -3/2

∴ x > y

60.

I. $x^2 − 26x − 192 = 0$

$\Rightarrow x^2 − 32x + 6x − 192 = 0$

$\Rightarrow x(x − 32) + 6(x − 32) = 0$

$\Rightarrow (x − 32)(x + 6) = 0$

Then, x = +32 or x = -6

II. $y^2 − 31y − 102 = 0$

$\Rightarrow y^2 − 34y + 3y − 102 = 0$

$\Rightarrow y(y − 34) + 3(y − 34) = 0$

$\Rightarrow (y − 34)(y + 3) = 0$

Then, y = +34 or y = -3

So, when x = +32, x < y for y = +34 and x > y for y = -3

And when x = -6, x < y for y = +34 and x < y for y = -3

∴ So, we can observe that no clear relationship cannot be determined between x and y.

61.

16 ×1 16 ×2.5 40 ×4 160 ×5.5 880 ×7 6160

62.

63.

64.

$\Rightarrow 6 \times 1 + 3 = 9$

$\Rightarrow 9 \times 2 + 3 = 21$

$\Rightarrow 21 \times 3 + 3 = 66$

$\Rightarrow 66 \times 4 + 3 = 267$

$\Rightarrow 267 \times 5 + 3 = 1338 = ?$

65.

$\Rightarrow 24 \times 0.5 - 2 = 10$

$\Rightarrow 10 \times 1 - 2 = 8 = ?$

$\Rightarrow 8 \times 1.5 - 2 = 10$

$\Rightarrow 10 \times 2 - 2 = 18$

$\Rightarrow 18 \times 2.5 - 2 = 43$

Logical Reasoning

66.

Given series:

N 6 & F K ~ G U 7 S # A 8 Z T * E W P 5 B € X @ J Z H 4 I ^ 3 V O 2 C

As, Left - Left = Left

$\Rightarrow$ 6th from the Left - 27th to the Left = 21st from the Left

Now, N 6 & F K ~ G U 7 S # A 8 Z T * E W P 5 <u>B</u> € X @ J Z H 4 I ^ 3 V O 2 C

Clearly, 21st from the Left is B.

67.

In the given series:

N 6 & F K ~ G U 7 S # A 8 Z T * E W P 5 B € X @ J Z H 4 I ^ 3 V O 2 C

Hence, there is one symbol which is immediately preceded by number and followed by an alphabet: 6 & F.

68.

In this given series:

N 6 & F K ~ G U 7 S # A 8 Z T * E W P 5 B € X @ J Z H 4 I ^ 3 <u>V</u> O 2 C

Hence, there is only one consonant which is immediately followed by a vowel but not immediately preceded by a symbol: 3 V O

69.

Given series:
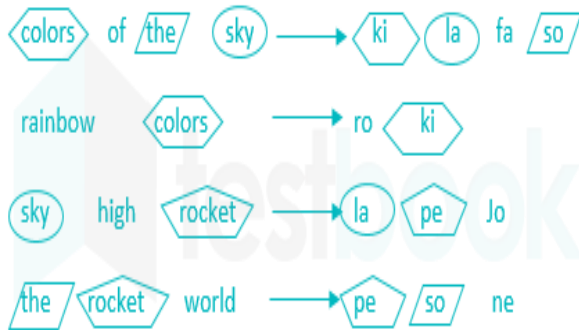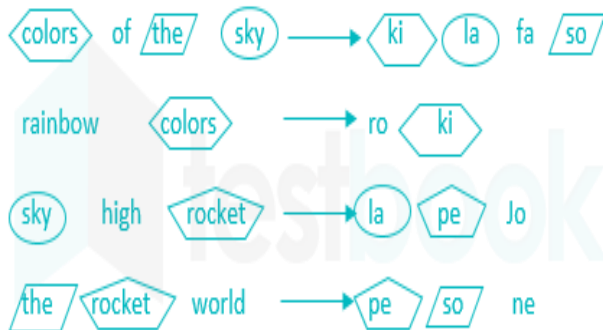
N 6 & F K ~ G U 7 S # A 8 Z T * E W P 5 B € X @ J Z H 4 I ^ 3 V O 2 C

Except 4HZ, rest of them follow a certain rule.

70.

71.

'bird' – not given in question

'of' – fa

'the' – so

'rainbow' – ro

'sky' – la

Code of the sentence 'bird of the rainbow Sky' will contain the coded

words – fa, so, ro, la and one word which is not present in the question.

72.

Given:

Boxes: A, B, C, D, E, F, G and H.

Colour: Purple, Red, Blue, Yellow, Green, White and Black.

Number of Balls: 4, 7, 9, 11, 12, 15 and 16.

1) The box which is placed at the top has number of balls which is perfect square of even number.

2) Box having 12 balls is immediately below the box having 4 balls.

Case: 1

Box	Colour	Number of balls
		16

Case: 2

Box	Colour	Number of balls
		4
		12

3) Sum of balls in box A and box C is 24.

4) Difference of balls in box C and box F is 8. Difference of balls in box E and box G is 5.

5) There are two boxes between box E and box A and both of them have number of balls which is a perfect square.

(From statement 3, 4, 5 and 6 we have number of balls in boxes C= 15, A=9, F=7, E=16 and G=11. Therefore, box D and B contains either 4 or 12 balls.)

6) Box F is placed immediately above the box D. Box D is of Red colour.

7) Box White is placed immediately below the Red colour box.

Using satatement 2) Box having 12 balls is immediately below the box having 4 balls.

(We can determine that that Box B and D are adjacent to each other)

Case: 1

Box	Colour	Number of balls
E		16
A		9
F		7
D	Red	4
	White	12

Case: 2 (i)

Box	Colour	Number of balls
F		4
D		12

Case: 2 (ii)

Box	Colour	Number of balls
D		4
B		12

Box	Colour	Number of balls
F		7
D	Red	4
B	White	12

(Case: 2 (i) is eliminated as F cannot have 4 balls)

(Case: 2 (ii) is also eliminated as D at the top, so F cannot be placed)

8) There are three boxes between the box D and box G.

9) There are four boxes placed between the box which is of Blue colour and the box which is of White colour.

10) There are two boxes placed between the box which is of Purple colour and Yellow colour.

11) Box which is of Black colour is placed immediately below Yellow colour box.

Case: 1

Case: 1

Box	Colour	Number of balls
E		16
G	Blue	11
C		15
A		9

Box	Colour	Number of balls
E	Purple	16
G	Blue	11
C		15
A	Yellow	9
F	Black	7
D	Red	4
B	White	12

After filling the gaps final arrangement will be as follows:

Box	Colour	Number of balls
E	Purple	16
G	Blue	11

Box	Colour	Number of balls
C	Green	15
A	Yellow	9
F	Black	7
D	Red	4
B	White	12

Hence, Purple colour box contain 16 balls.

73.

Given:

Boxes: A, B, C, D, E, F, G and H.

Colour: Purple, Red, Blue, Yellow, Green, White and Black.

Number of Balls: 4, 7, 9, 11, 12, 15 and 16.

1) The box which is placed at the top has number of balls which is perfect square of even number.

2) Box having 12 balls is immediately below the box having 4 balls.

Case: 1

Box	Colour	Number of balls
		16

Case: 2

Box	Colour	Number of balls
		4
		12

3) Sum of balls in box A and box C is 24.

4) Difference of balls in box C and box F is 8. Difference of balls in box E and box G is 5.

5) There are two boxes between box E and box A and both of them have number of balls which is a perfect square.

(From statement 3, 4, 5 and 6 we have number of balls in boxes C= 15, A=9, F=7, E=16 and G=11. Therefore, box D and B contains either 4 or 12 balls.)

6) Box F is placed immediately above the box D. Box D is of Red colour.

7) Box White is placed immediately below the Red colour box.

Using satatement 2) Box having 12 balls is immediately below the box having 4 balls.

(We can determine that that Box B and D are adjacent to each other)

Case: 1

Box	Colour	Number of balls
E		16
A		9
F		7
D	Red	4
	White	12

Case: 2 (i)

Box	Colour	Number of balls
F		4
D		12

Case: 2 (ii)

Box	Colour	Number of balls
D		4
B		12

(Case: 2 (i) is eliminated as F cannot have 4 balls)

(Case: 2 (ii) is also eliminated as D at the top, so F cannot be placed)

8) There are three boxes between the box D and box G.

9) There are four boxes placed between the box which is of Blue colour and the box which is of White colour.

Case: 1

Box	Colour	Number of balls
E		16
G	Blue	11
C		15
A		9
F		7
D	Red	4
B	White	12

10) There are two boxes placed between the box which is of Purple colour and Yellow colour.

11) Box which is of Black colour is placed immediately below Yellow colour box.

Case: 1

Box	Colour	Number of balls
E	Purple	16
G	Blue	11
C		15
A	Yellow	9
F	Black	7

Box	Colour	Number of balls
D	Red	4
B	White	12

After filling the gaps final arrangement will be as follows:

Box	Colour	Number of balls
E	Purple	16
G	Blue	11
C	Green	15
A	Yellow	9
F	Black	7
D	Red	4
B	White	12

Hence, C is of Green colour.

74.

Given:

Boxes: A, B, C, D, E, F, G and H.

Colour: Purple, Red, Blue, Yellow, Green, White and Black.

Number of Balls: 4, 7, 9, 11, 12, 15 and 16.

1) The box which is placed at the top has number of balls which is perfect square of even number.

2) Box having 12 balls is immediately below the box having 4 balls.

Case: 1

Box	Colour	Number of balls
		16

Case: 2

Box	Colour	Number of balls
		4
		12

3) Sum of balls in box A and box C is 24.

4) Difference of balls in box C and box F is 8. Difference of balls in box E and box G is 5.

5) There are two boxes between box E and box A and both of them have number of balls which is a perfect square.

(From statement 3, 4, 5 and 6 we have number of balls in boxes C= 15, A=9, F=7, E=16 and G=11. Therefore, box D and B contains either 4 or 12 balls.)

6) Box F is placed immediately above the box D. Box D is of Red colour.

7) Box White is placed immediately below the Red colour box.

Using satatement 2) Box having 12 balls is immediately below the box having 4 balls.

(We can determine that that Box B and D are adjacent to each other)

Case: 1

Box	Colour	Number of balls
E		16

Box	Colour	Number of balls
A		9
F		7
D	Red	4
	White	12

Case: 2 (i)

Box	Colour	Number of balls
F		4
D		12

Case: 2 (ii)

Box	Colour	Number of balls
D		4
B		12

(Case: 2 (i) is eliminated as F cannot have 4 balls)

(Case: 2 (ii) is also eliminated as D at the top, so F cannot be placed)

8) There are three boxes between the box D and box G.

9) There are four boxes placed between the box which is of Blue colour and the box which is of White colour.

Case: 1

Box	Colour	Number of balls
E		16
G	Blue	11
C		15
A		9
F		7
D	Red	4
B	White	12

10) There are two boxes placed between the box which is of Purple colour and Yellow colour.

11) Box which is of Black colour is placed immediately below Yellow colour box.

Case: 1

Box	Colour	Number of balls
E	Purple	16
G	Blue	11
C		15
A	Yellow	9
F	Black	7
D	Red	4
B	White	12

After filling the gaps final arrangement will be as follows:

Box	Colour	Number of balls
E	Purple	16
G	Blue	11
C	Green	15
A	Yellow	9
F	Black	7
D	Red	4
B	White	12

Hence, box C is placed immediately above box A.

75.

Given:

Boxes: A, B, C, D, E, F, G and H.

Colour: Purple, Red, Blue, Yellow, Green, White and Black.

Number of Balls: 4, 7, 9, 11, 12, 15 and 16.

1) The box which is placed at the top has number of balls which is perfect square of even number.

2) Box having 12 balls is immediately below the box having 4 balls.

Case: 1

Box	Colour	Number of balls
		16

Case: 2

Box	Colour	Number of balls
		4
		12

3) Sum of balls in box A and box C is 24.

4) Difference of balls in box C and box F is 8. Difference of balls in box E and box G is 5.

5) There are two boxes between box E and box A and both of them have number of balls which is a perfect square.

(From statement 3, 4, 5 and 6 we have number of balls in boxes C= 15, A=9, F=7, E=16 and G=11. Therefore, box D and B contains either 4 or 12 balls.)

6) Box F is placed immediately above the box D. Box D is of Red colour.

7) Box White is placed immediately below the Red colour box.

Using satatement 2) Box having 12 balls is immediately below the box having 4 balls.

(We can determine that that Box B and D are adjacent to each other)

Case: 1

Box	Colour	Number of balls
E		16
A		9
F		7
D	Red	4
	White	12

Case: 2 (i)

Box	Colour	Number of balls
F		4
D		12

Case: 2 (ii)

Box	Colour	Number of balls
D		4
B		12

F		7
D	Red	4
B	White	12

(Case: 2 (i) is eliminated as F cannot have 4 balls)

(Case: 2 (ii) is also eliminated as D at the top, so F cannot be placed)

8) There are three boxes between the box D and box G.

9) There are four boxes placed between the box which is of Blue colour and the box which is of White colour.

Case: 1

Box	Colour	Number of balls
E		16
G	Blue	11
C		15
A		9

10) There are two boxes placed between the box which is of Purple colour and Yellow colour.

11) Box which is of Black colour is placed immediately below Yellow colour box.

Case: 1

Box	Colour	Number of balls
E	Purple	16
G	Blue	11
C		15
A	Yellow	9
F	Black	7
D	Red	4
B	White	12

After filling the gaps final arrangement will be as follows:

Box	Colour	Number of balls
E	Purple	16
G	Blue	11

C	Green	15
A	Yellow	9
F	Black	7
D	Red	4
B	White	12

Hence, Yellow colour box is placed immediately below Green colour box.

76.

1) The arrangement of word after concatenation are:

Left End M E E T B O O K E D U T I T P A **Right End**

2) Vowel nearest to the right end

M E E T B O O K E D U T I T P **A**

3) 12th letter left to A is T.

M E E **T** B O O K E D U T I T P A

4) Vowel nearest T is E.

M E **E** T B O O K E D U T I T P A

5) Letter 7th to the right of E is D.

M E E T B O O K E **D** U T I T P A

Hence, D is the correct answer.

77.

In the given pattern, 2 series are mixed, in which one is multiple of 6 and another one is multiple of 8.

Multiples of 6

60   40   54   32   48   24   42   16

Multiples of 8
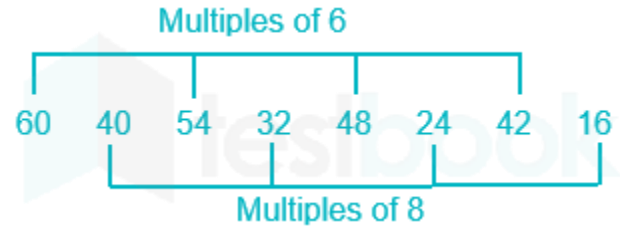
Hence, missing term is "32".

78.

From the given information, we can infer the following:
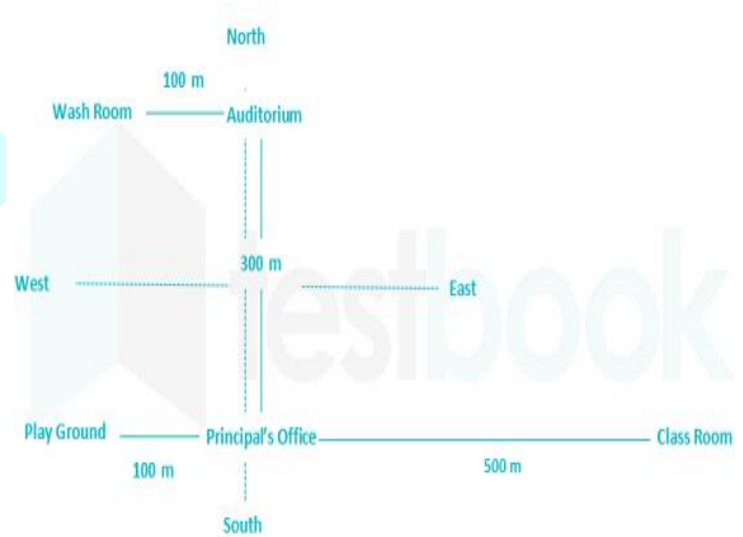
Thus, we see that the playground lies

79.

According to the given information:

North
100 m
Wash Room —————— Auditorium

300 m

West - - - - - - - - - - - - - - -

Play Ground ————— Principal's Office ————
100 m

South
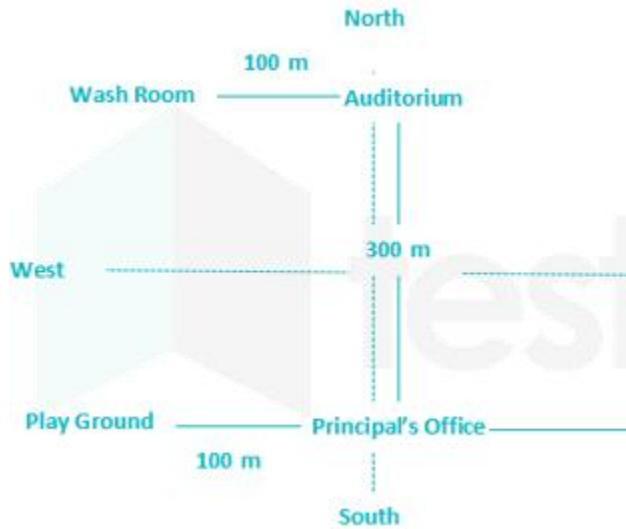
Therefore, the distance between the classroom and playground is = 500 + 100 = 600 m

As the gender of H and F are not defined, we cannot establish a definite relationship between them but H will be either a niece or nephew of F.

Hence, H may be a niece or nephew of F.

80.

Table is drawn describing symbols and their meanings:

Symbol in Diagram	Meaning
◯	Female
▢	Male
———	Married Couple
——	Siblings
| |	Difference of A Generation

Drawing a family tree,

81.

Nine members A, B, C, D, E, F, G, H & I and all are facing north.

First, we will draw the sitting arrangement and then the family tree.

1) D who is the brother-in-law of A is sitting in the middle of the row and second to the right of A.

2) A is sitting immediate left of his wife C.

3) H who has 2 sons and 1 daughter is sitting third to the right of C.

4) E is sitting immediate right of his maternal uncle D.

5) B is sitting immediate right of his wife H.

A   C   D   E   H   B

6) Members at both the extreme ends are children of B.

7) The daughters G and I are sitting with their respective fathers.

8) I who is the granddaughter of H is not sitting at any of the extreme ends.

As mentioned in 8), I is not sitting at any of the extreme ends, I will be sitting immediate left of A. Then G who must be the daughter of B will sit with her father B as per 7). Then F will sit at the extreme left end.

Therefore, the final arrangement is as follows.

Now we will draw the family tree.

From the given information,

Symbol in Diagram	Meaning
◯	Female
▢	Male
═	Married Couple
—	Siblings
│	Difference of A Generation

1) H has 2 sons and 1 daughter.

2) B is sitting immediate right of his wife H.

3) Members at both the extreme ends are children of B.

Hence, H is the wife of B and from the arrangement F & G who are sitting at extreme ends are two out of three children of H & B.

4) A is sitting immediate left of his wife C

5) I who is the granddaughter of H.

6) The daughters G and I are sitting with their respective fathers.
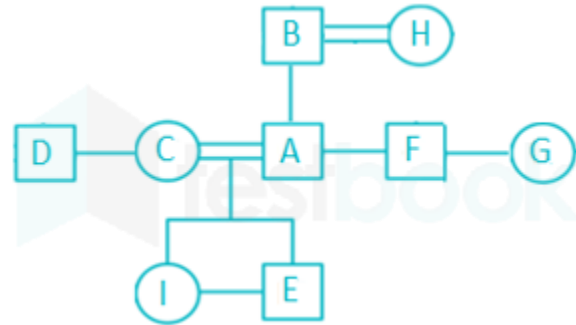
Hence, A is the husband of C and from the arrangement, I is the daughter of A. Hence A, F & G are the children of H & B in which A & F are sons, G is the daughter.

7) D who is the brother-in-law of A is sitting in the middle of the row and second to the right of A.

8) E is sitting immediate right to his maternal uncle D.

Hence, C who is wife of A is sister of D and E is the son of A & C.

Hence, we can draw the family tree as below:
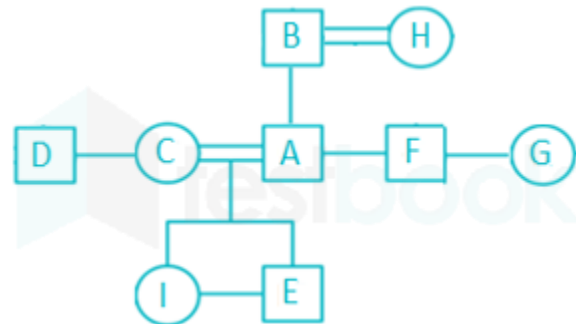
Hence, H is sitting second to the left of G.

82.

Nine members A, B, C, D, E, F, G, H & I and all are facing north.

First, we will draw the sitting arrangement and then the family tree.

1) D who is brother-in-law of A is sitting in the middle of the row and second to the right of A.

2) A is sitting immediate left of his wife C.

3) H who has 2 sons and 1 daughter is sitting third to the right of C.

4) E is sitting immediate right of his maternal uncle D.

5) B is sitting immediate right of his wife H.

A   C   D   E   H   B

6) Members at both the extreme ends are children of B.

7) The daughters G and I are sitting with their respective fathers.

8) I who is the granddaughter of H is not sitting at any of the extreme ends.

As mentioned in 8), I is not sitting at any of the extreme ends, I will be sitting immediate left of A. Then G who must be the daughter of B will sit with her father B as per 7). Then F will sit at the extreme left end.

Therefore, the final arrangement is as follows.

F   I   A   C   D   E   H   B   G

Now we will draw the family tree.

From the given information,

Symbol in Diagram	Meaning
○	Female
□	Male
=	Married Couple
—	Siblings
|	Difference of A Generation

1) H has 2 sons and 1 daughter.

2) B is sitting immediate right of his wife H.

3) Members at both the extreme ends are children of B.

Hence, H is the wife of B and from the arrangement F & G who are sitting at extreme ends are two out of three children of H & B.

4) A is sitting immediate left of his wife C

5) I who is granddaughter of H.

6) The daughters G and I are sitting with their respective fathers.

Hence, A is the husband of C and from the arrangement; I is the daughter of A. Hence A, F & G are the children of H & B in which A & F are sons, G is the daughter.

7) D who is the brother-in-law of A is sitting in the middle of the row and second to the right of A.
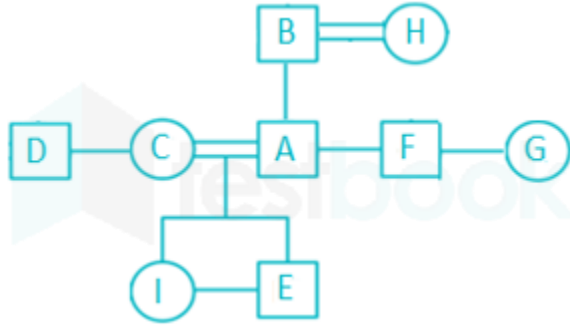
8) E is sitting immediate right of his maternal uncle D.

Hence, C who is the wife of A is sister of D and E is the son of A & C.

Hence, we can draw the family tree as below:

From the family tree, E is the nephew of F.

83.

Nine members A, B, C, D, E, F, G, H & I and all are facing north.

First, we will draw the sitting arrangement and then the family tree.

1) D who is brother-in-law of A is sitting in the middle of the row and second to the right of A.

2) A is sitting immediate left of his wife C.

3) H who has 2 sons and 1 daughter is sitting third to the right of C.

4) E is sitting immediate right of his maternal uncle D.

5) B is sitting immediate right of his wife H.

6) Members at the both the extreme ends are children of B.

7) The daughters G and I are sitting with their respective fathers.

8) I who is granddaughter of H is not sitting at any of the extreme end.

As mentioned in 8), I is not sitting at any of the extreme ends, I will be sitting immidiete left of A. Then G who must be daughter of B will sit with her father B as per 7). Then F will sit at extreme left end.

Therefore, the final arrangement is as follows.

Now we will draw the family tree.

From the given information,

Symbol in Diagram	Meaning
○	Female
□	Male
═	Married Couple
—	Siblings
│	Difference of A Generation

1) H has 2 sons and 1 daughter.

2) B is sitting immediate right of his wife H.

3) Members at both the extreme ends are children of B.

Hence, H is the wife of B and from the arrangement; F & G who are sitting at extreme ends are two out of three children of H & B.

4) A is sitting immediate left of his wife C

5) I who is granddaughter of H.

6) The daughters G and I are sitting with their respective fathers.

Hence, A is the husband of C and from the arrangement; I is the daughter of A. Hence A, F & G are the children of H & B in which A & F are sons, G is the daughter.

7) D who is the brother-in-law of A is sitting in the middle of the row and second to the right of A.

8) E is sitting immediate right of his maternal uncle D.

Hence, C who is the wife of A is sister of D and E is the son of A & C.

Hence, we can draw the family tree as below:

From the family tree, I's mother is C and from the linear arrangement, H is sitting third to the right of C.

84.

Nine members A, B, C, D, E, F, G, H & I and all are facing north.

First, we will draw the sitting arrangement and then the family tree.

1) D who is the brother-in-law of A is sitting in the middle of the row and second to the right of A.

2) A is sitting immediate left of his wife C.

3) H who has 2 sons and 1 daughter is sitting third to the right of C.

4) E is sitting immediate right of his maternal uncle D.

5) B is sitting immediate right of his wife H.

6) Members at both the extreme ends are children of B.

7) The daughters G and I are sitting with their respective fathers.

8) I who is the granddaughter of H is not sitting at any of the extreme ends.

As mentioned in 8), I is not sitting at any of the extreme ends, I will be sitting immediate left of A. Then G who must be the daughter of B will sit with her father B as per 7). Then F will sit at the extreme left end.

Therefore, the final arrangement is as follows.

Now we will draw the family tree.

From the given information,

Symbol in Diagram	Meaning
○	Female
□	Male
═	Married Couple
—	Siblings
│	Difference of A Generation

1) H has 2 sons and 1 daughter.

2) B is sitting immediate right of his wife H.

3) Members at both the extreme ends are children of B.

Hence, H is the wife of B from the arrangement, F & G who are sitting at extreme ends are two out of three children of H & B.

4) A is sitting immediate left of his wife C

5) I who is granddaughter of H.

6) The daughters G and I are sitting with their respective fathers.

Hence, A is the husband of C and from the arrangement; I is the daughter of A. Hence A, F & G are the children of H & B in which A & F are sons, G is the daughter.

7) D who is the brother-in-law of A is sitting in the middle of the row and second to the right of A.

8) E is sitting immediate right of his maternal uncle D.

Hence, C who is the wife of A is sister of D and E is the son of A & C.

Hence, we can draw the family tree as below:

From the family tree, A's brother is F and E's mother is C. From the linear arrangement, F is third to the left of C.

85.

nine members A, B, C, D, E, F, G, H & I and all are facing north.

First, we will draw the sitting arrangement and then the family tree.

1) D who is brother-in-law of A is sitting in the middle of the row and second to the right of A.

2) A is sitting immediate left of his wife C.

3) H who has 2 sons and 1 daughter is sitting third to the right of C.

4) E is sitting immediate right of his maternal uncle D.

5) B is sitting immediate right of his wife H.

6) Members at both the extreme ends are children of B.

7) The daughters G and I are sitting with their respective fathers.

8) I who is granddaughter of H is not sitting at any of the extreme ends.

As mentioned in 8), I is not sitting at any of the extreme ends, I will be sitting immediate left of A. Then G who must be daughter of B will sit with her father B as per 7). Then F will sit at the extreme left end.

Therefore, the final arrangement is as follows.

Now we will draw the family tree.

From the given information,

Symbol in Diagram	Meaning
○	Female
□	Male
=	Married Couple
—	Siblings
│	Difference of A Generation

1) H has 2 sons and 1 daughter.

2) B is sitting immediate right of his wife H.

3) Members at both the extreme ends are children of B.

Hence, H is the wife of B and from the arrangement, F & G who are sitting at extreme ends are two out of three children of H & B.

4) A is sitting immediate left of his wife C

5) I who is granddaughter of H.

6) The daughters G and I are sitting with their respective fathers.

Hence, A is the husband of C and from the arrangement; I is the daughter of A. Hence A, F & G are the children of H & B in which A & F are sons, G is the daughter.

7) D who is brother-in-law of A is sitting in the middle of the row and second to the right of A.

8) E is sitting immediate right of his maternal uncle D.

Hence, C who is wife of A is sister of D and E is the son of A & C.

Hence, we can draw the family tree as below:
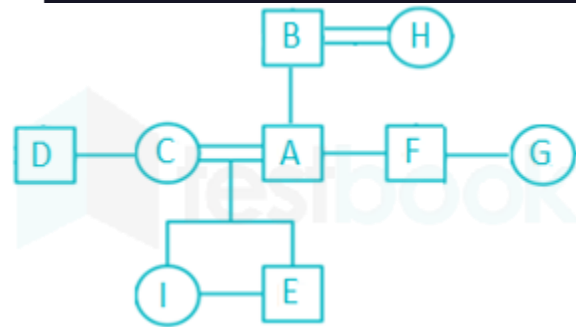
From the family tree, D's sister is C and H's daughter-in-law is C.

When C will come in place of D, H will be second to the right of C.

86.

Members: A, B, C, D, E

1) In ascending order of their weight, A is second and C is third.

2) When they are arranged in the ascending order of their height, B takes place of C and C takes place of E.

Student	Rank as per weight	Rank as per height
A	2	
B		3
C	3	x
D		
E	x	

3) E is heavier than A.

4) A is smallest among all.

Student	Rank as per weight	Rank as per height
A	2	5
B		3
C	3	1
D		
E	1	

Student	Rank as per weight	Rank as per height
A	2	
B		3
C	3	x
D		
E	x	

5) D's position remains the same in both the arrangements.

So, only D's rank possible is 4.

Student	Rank as per weight	Rank as per height
A	2	5
B	5	3
C	3	1
D	4	4
E	1	2

Clearly, B is the lightest among all.

87.

Members: A, B, C, D, E

1) In ascending order of their weight, A is second and C is third.

2) When they are arranged in the ascending order of their height, B takes place of C and C takes place of E.

3) E is heavier than A.

4) A is smallest among all.

Student	Rank as per weight	Rank as per height
A	2	5
B		3
C	3	1
D		
E	1	

5) D's position remains the same in both the arrangements.

So, only D's rank possible is 4.

Student	Rank as per weight	Rank as per height
A	2	5
B	5	3
C	3	1
D	4	4

| E | 1 | 2 |

Clearly, C is tallest among all.

88.

Statement:

B ≥ L > W = Q; W > S; T < L

On Combining: B ≥ L > W = Q > S; B ≥ L > T; T < L > W = Q > S

Conclusions:

I. T < Q → False (as T < L > Q → clear relation between T and Q cannot be defined)

II. B = S → False (as B ≥ L > W > S → B > S)

Clearly, neither conclusion I nor II follows.

89.

Given statement: A > T ≥ R; L ≥ M > N; T = N < S

On combining: L ≥ M > N = T ≥ R; S > N; A > N

I. A > R → True (A > T ≥ R; hence A > R)

II. L = R → False (L ≥ M > N = T ≥ R, implies L > R)

III. S < M → False (M > N; S > N, relation between S and M can't be determined)

Only conclusion I is true.

90.

Given statements: U = E > N, Y ≤ Z < C, U > Y = S

On combining: N < E = U > Y = S ≤ Z < C

Conclusions:

I. Y > N → False (as N < E = U > Y → cannot determine clear relation between Y and N)

II. E > S → True (as E = U > Y = S → cannot determine clear relation between E and S)

Therefore, only conclusion II is true.

91.

The least possible Venn diagram for the given statements is as follows,

Conclusions:

I. No purse is handle → False (It is possible but not definite)

II. Some purse are handle → False (It is possible but not definite)

Conclusion I and II are complementary to each other.

Hence, either I or II follows.

92.

The least possible Venn diagram for the given statements is as follows,
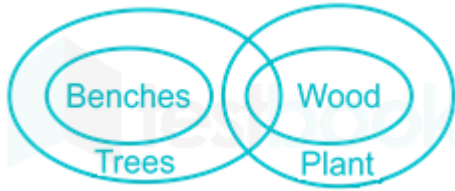
I. Some plant are benches → not follows.

II. Some plant are trees → follows.

III. Some wood are benches → not follows.
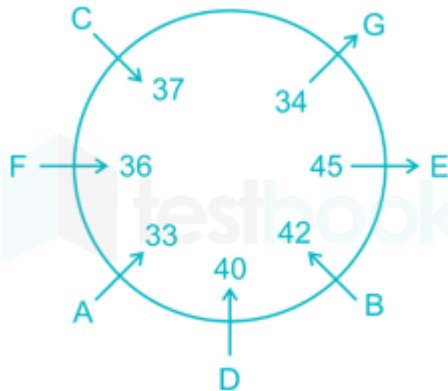
Hence, only conclusion II only follows.

93.

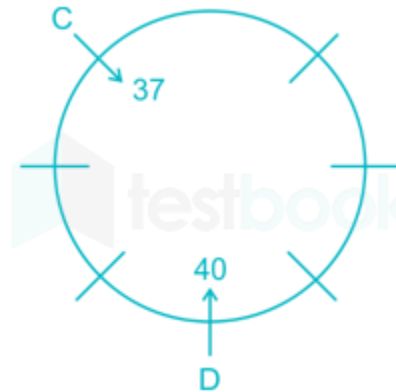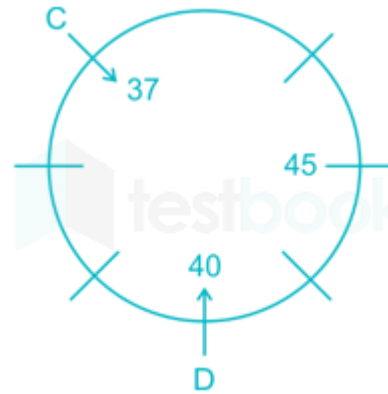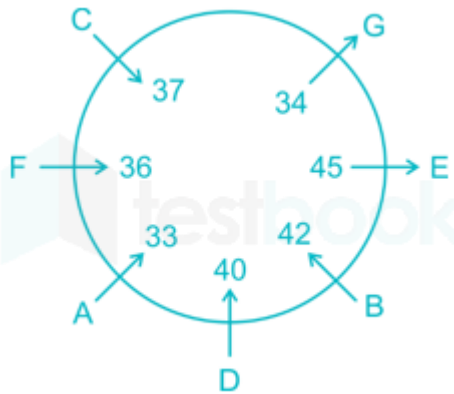1) C who is 37 years old, sits third to the left of D(40 years old) and both are facing the center:
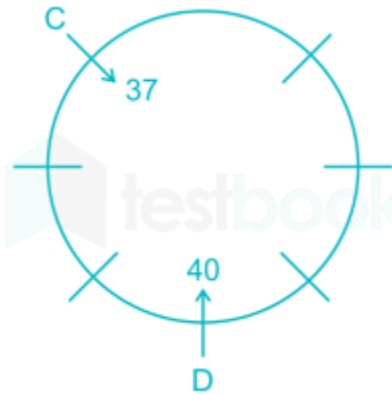
2) The one who is 45 years old is neither an immediate neighbor of D nor C:
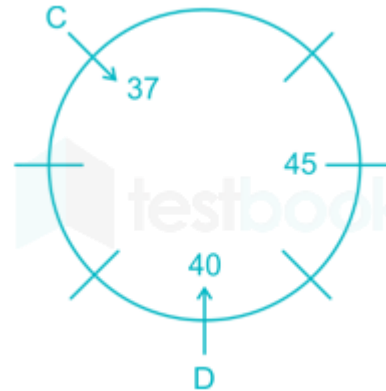
3) The one who is 33 years old is sitting exactly between D and F(36 years old) is facing the center:
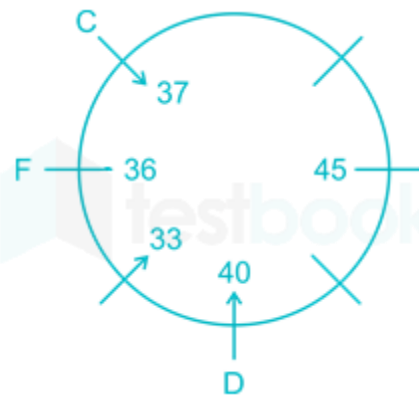
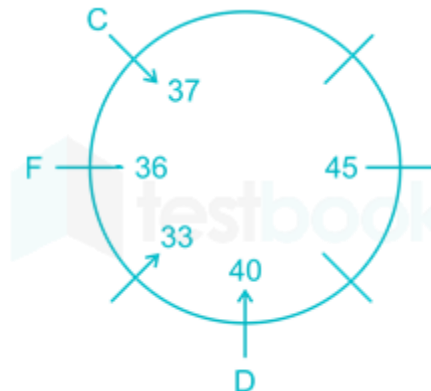4) G, 34 years old, sits third to the left of A(33 years old) and G is facing opposite to the center:
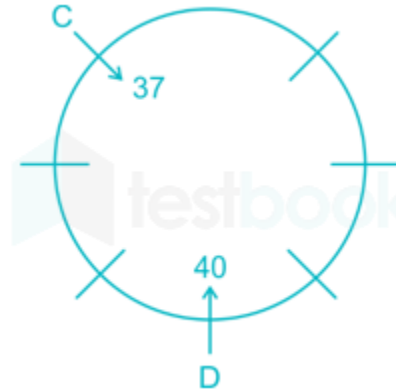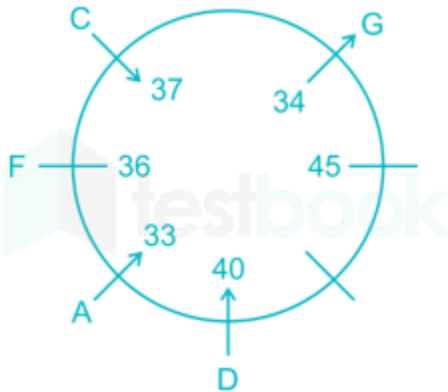
5) One of the B's (42 years old) neighbors is facing opposite to the center:
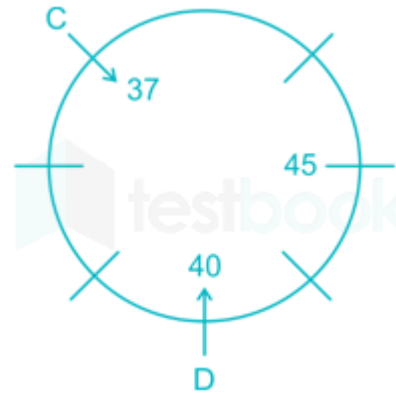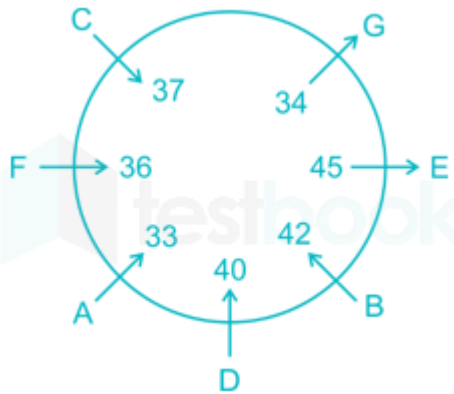
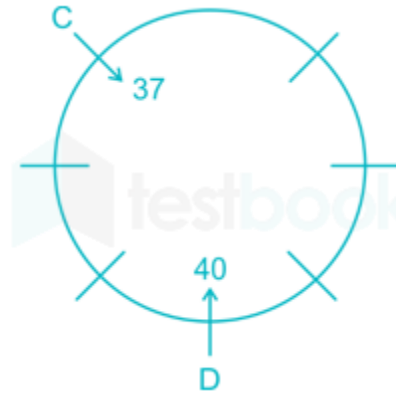Hence, boy who is 42 years old is adjacent from 45 years old and 40 years old.

94.

1) C who is 37 years old, sits third to the left of D(40 years old) and both are facing the center:

2) The one who is 45 years old is neither an immediate neighbor of D nor C:

3) The one who is 33 years old is sitting exactly between D and F(36 years old) is facing the center:

4) G, 34 years old, sits third to the left of A(33 years old) and G is facing opposite to the center:

5) One of the B's (42 years old) neighbors is facing opposite to the center:

Hence, C is second to the left of A who is 33 years old.
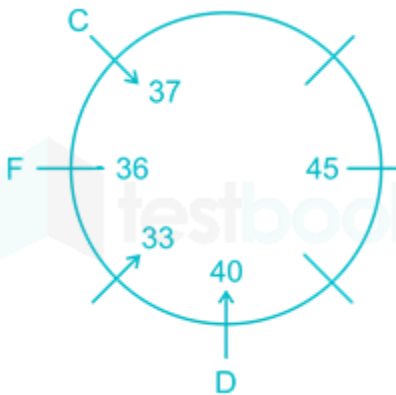
95.

1) C who is 37 years old, sits third to the left of D(40 years old) and both are facing the center:

2) The one who is 45 years old is neither an immediate neighbor of D nor C:

3) The one who is 33 years old is sitting exactly between D and F(36 years old) is facing the center:

4) G, 34 years old, sits third to the left of A(33 years old) and G is facing opposite to the center:
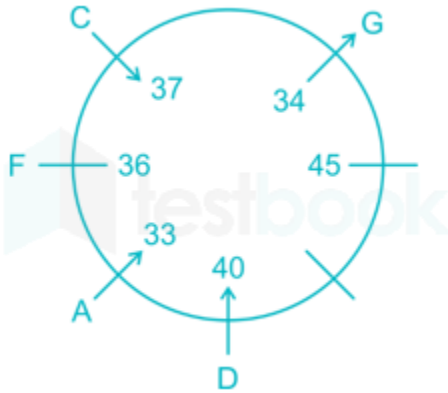
5) One of the B's (42 years old) neighbors is facing opposite to the center:

Hence, the person sitting to the right of the person of age of 45 years sits at 5th to the left of 33 years old person.

96.

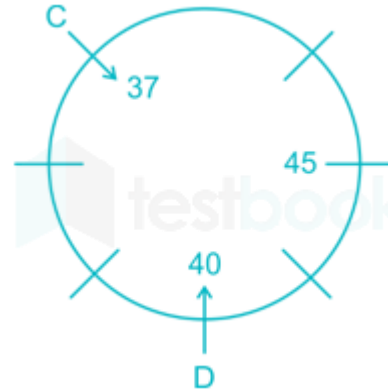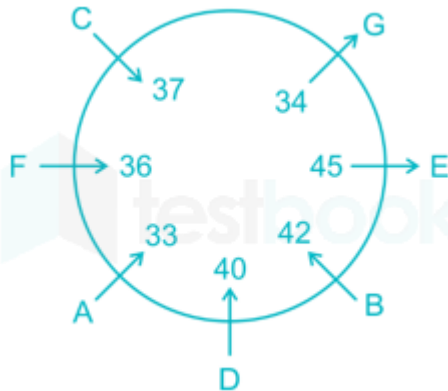1) C who is 37 years old, sits third to the left of D(40 years old) and both are facing the center:

2) The one who is 45 years old is neither an immediate neighbor of D nor C:

3) The one who is 33 years old is sitting exactly between D and F(36 years old) is facing the center:

4) G, 34 years old, sits third to the left of A(33 years old) and G is facing opposite to the center:
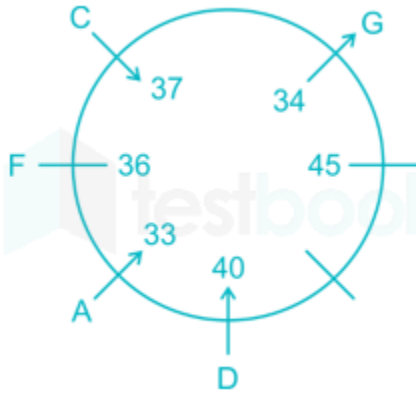
5) One of the B's (42 years old) neighbors is facing opposite to the center:

Hence, the boy facing opposite to center is G.

97.

1) C who is 37 years old, sits third to the left of D(40 years old) and both are facing the center:
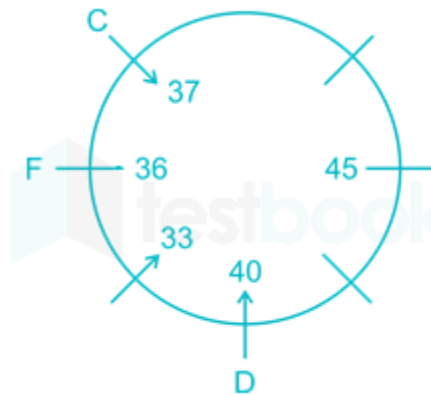
2) The one who is 45 years old is neither an immediate neighbor of D nor C:

3) The one who is 33 years old is sitting exactly between D and F(36 years old) is facing the center:

4) G, 34 years old, sits third to the left of A(33 years old) and G is facing opposite to the center:
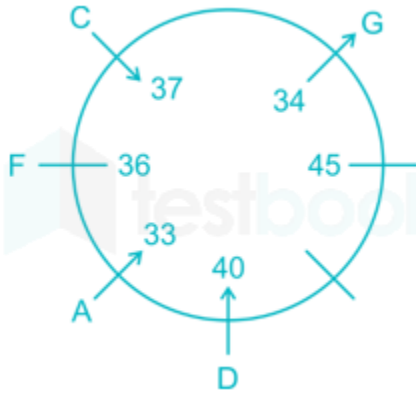
5) One of the B's (42 years old) neighbors is facing opposite to the center:
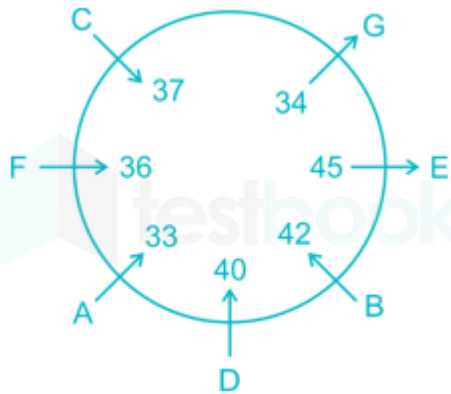
Hence, there are two people sitting between D and. (from right of C)

98.

Given,from statement I Only Bunty is between Sonu and Raman. There can be two possibilities:

Case 1:

Case 2:

From statement II,

Only Suman is between Pawan and Sonu.
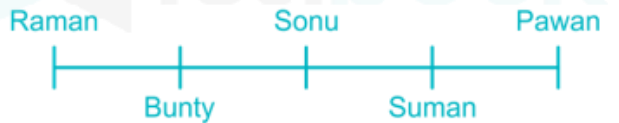
Case 1:

Case 2:

By combining statement I and statement II we get,

Case 1:

Case 2:

In both cases, Sonu is sitting in the middle of the row.

Thus, statement I and statement II together are necessary to answer the question.

99.

Given, from statement I

Radha is 30th from the top and Neeta is 4th from the top.

Top

Neeta (4th)

Radha (30th)

Bottom

From statement II, Sunita is exactly in the middle of Radha & Neeta.

Thus, there is no exact solution from each statement alone.

On combining both the statements we get,

Top

Neeta (4th)

Sunita (17th)

Radha (30th)

Bottom

Thus, Sunita's rank is 17th from top.

Thus, by using both statement I and statement II together we can answer the question.

100.

Given, from statement I

A person walks 4 m towards the North from point A and reaches point C.

Point B is 8 m away from point C.

Since the direction is not given about point B so B can be anywhere. Thus this statement alone cannot give the answer to the question.

From statement II,

Point D is 2 m towards the East of point A and 4 m towards the West of point B.

A —2m— D —4m— B

Thus, A is 6m west of point B.

Thus, from statement II alone we can answer the question.