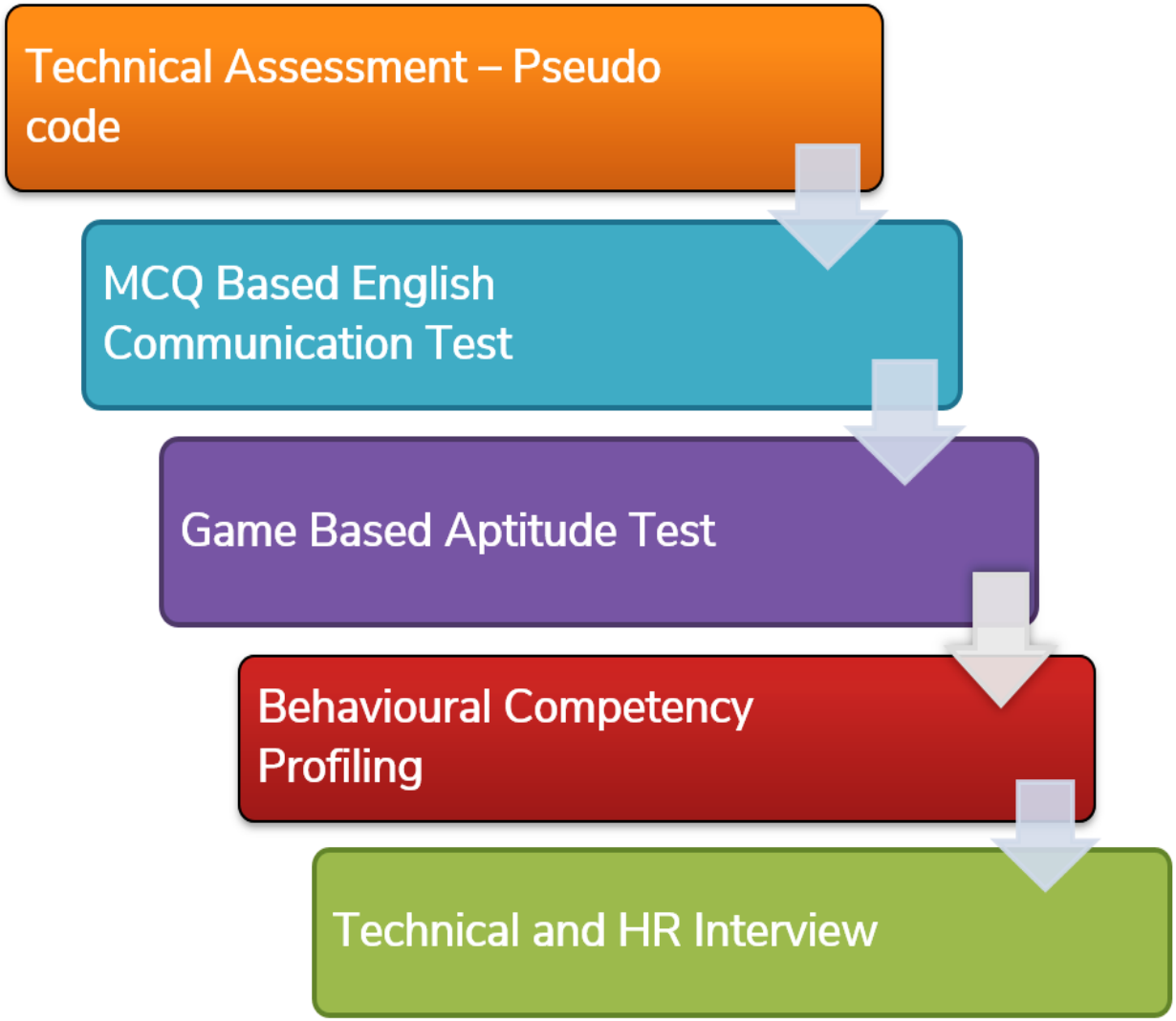
Capgemini Recruitment Process



Birlasoft®

Campus Placement Papers & Test Pattern

EXAM PATTERN

Candidates should go through a three stage selection process to get recruited in Birlasoft:-

- **Written Exam**
- **Group Discussion**
- **Technical Interview**
- **HR Interview**

WRITTEN EXAM

QUANTITATIVE APTITUDE	20
ENGLISH	10
TECHNICAL	20
TOTAL	50 (1 hr)

BIRLASOFT

- **Time allotted for the written exam is 60 minutes. There is negative marking of ¼ marks.**
- **Quantitative Aptitude section consists of math's questions from the topics like algebra, time & work, speed distance time, probability, ratios, percentages, etc.**
- **Verbal section questions were from the topics like synonyms, antonyms, identification of correct sentence etc.**
- **Technical section questions were from topics like DBMS like normalization, JAVA, C and OOPS.**
- **Overall the level of the paper is easy to moderate. The candidates who clear the written exam only qualify for the next round.**


L&T INFOTECH
L&T Infotech Test Pattern and Syllabus

EXAM PATTERN

L&T Recruitment happens every year to select new candidates. The selection process of L&T consists of following rounds:-

- **Online Test**
- **Technical Interview**
- **HR Interview**

ONLINE TEST

Sections	Number of Question	Time Allotted (In Minutes)
Quantitative Aptitude	10	10
Logical Reasoning	10	10
Verbal Ability	10	10
Technical Skills	40	40
Coding Skills	1	40
Psychometry	86	20
Writing Skills	1	10

SECTION-1

- **In the first section, you will have to attempt 10 questions of Quantitative aptitude in 10 minutes.**
- **Questions could be asked from**
- **Time and work**
- **Averages**
- **Percentages**
- **Profit and loss**
- **Number system**
- **Geometry**
- **Probability**
- **Clocks and calendars**
- **Number series**
- **Mixture and alligation**

SECTION - 2

- **In the second section, there will be 10 logical reasoning questions and the time allotted is 10 minutes.**
- **Blood relations**
- **Syllogism**
- **Coding and Decoding**
- **Directions & Distance**
- **Data Sufficiency**
- **Statement & Conclusion**
- **Puzzle**
- **Arrangements**
- **Seating arrangement**
- **Coding Pattern & Number series**
- **Pattern recognition**
- **Alphabet series**
- **Analogy & Arrangement**

SECTION - 3

- **The verbal ability round consists of 10 questions that will have to be attempted in 10 minutes.**
- **Synonyms**
- **Antonyms**
- **Error Identification**
- **Sentence Improvement & Correction**
- **Sentence completion**
- **Fill in the blanks**
- **Passage Completion**
- **Reading Comprehension**
- **One word substitution**

SECTION - 4

- **This round consists of questions to test your technical skills. There are a total of 40 questions ranging from topics such as**
- **C**
- **C++**
- **SQL**
- **Operating System**
- **HTML**
- **SDLC**
- **Algorithms**
- **Networking.**

SECTION – 5,6,7

Section 5:-

- **This section is used to test your coding skills. You will be given one question and the time allotted is 40 minutes. To brush up with your coding skills .**

Section 6:-

- **The Psychometry section consists of 86 questions that will have to be attempted in 20 minutes.**

Section 7:-

- **The final section involves paragraph writing. Here your writing skills will be tested. The time allotted to complete this section is 10 minutes.**

Note: The time allotted is 140 minutes and there is no negative marking.

By- Rahul Agrahari

GOLDMAN SACHS - 2020

Four engineers are working in a building of five floors (including ground floor). What is the probability that exactly three engineers among them are working on the same floor?

(a) 1/625

(b) 4/625

(c) 1/125

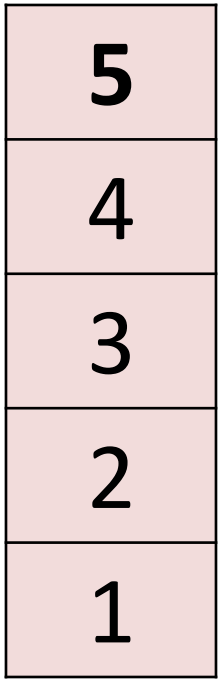
(d) 16/125

EXPLANATION

$^{4}C_{3}$ X 5 X $^{1}C_{1}$ X 4 / (5 X 5 X 5 X 5) =

= 4 X 5 X 1 X 4 / (5 X 5 X 5 X 5) = 16/125

4E



EXPLANATION

There are five floors

Probability of an engineer working on any specific floor = 1/5

Probability on an engineer not working on that floor = 1 - 1/5 = 4/5

probability that exactly three engineers among them are working on the same floor

3 Floors working on a floor

$^{4}C_{3} * ^{5}C_{1} * (1/5)^{3} * (4/5)$

$^{4}C_{3}$ - ways of selecting 3 engineers .

$^{5}C_{1}$ - ways of selecting floor .

1/5 - is the probability of each engineer working on that floor

4/5- is the probability of engineer not working on that floor

$= 4 * 5 (1/5)^{3} * (4/5)$

$= 16/125$

GOLDMAN SACHS - 2020

In a code language, MONDAY is coded as 1315414125, how would you code THURSDAY in the same language ?

(a) 2082119184125

(b) 2082191184125

(c) 20281191184125

(d) 2082119148125

EXPLANATION

MONDAY = 13 15 4 14 1 25

THURSDAY = ?

MONDAY = 13 15 14 4 1 25

THURSDAY = 20 8 21 18 19 4 1 25

THURSDAY = 208211918 4125

Option A correct

GOLDMAN SACHS - 2020

The fixed cost of running a magazine is Rs 30000 per month. The cost of paper and ink is Rs. 100 per 500 copies and printing cost is Rs. 200 per 500 copies. In the last month 20000 copies were printed but only half of those could be sold at Rs. 4 each. There is one more source of income for the magazine , which is advertising. If the total profit was 25% of the revenue from selling copies, what sum of money was obtained by advertising in the magazine?

(a) Rs. 14500

(b) Rs. 12000

(c) Rs. 11500

(d) Rs. 13500

EXPLANATION

Total cost = Fixed cost + Variable cost

TC = 30000 + (20000/500) (100+200)

TC = 42000

SP = 10000 X 4 = 40000

Profit = SP – CP

40000 X 0.25 = (40000 + A) – 42000

A = 12000 Rs.

GOLDMAN SACHS - 2020

Three pipe A,B and C take 12 min, 20 min, and 15 min more than an hour respectively to fill a tank. All the three pipes are opened together for 12 min to try to fill the same tank. Then C is closed. After another 16 min, there occurs a leakage in A and the tank is fully filled after 4 min 20 sec. What percentage of A throughput is lost due to the leakage?

(a) 25%

(b) 22%

(c) 18%

(d) 20%

EXPLANATION

A = 72 min , 1 Min = 1/72

B = 80 min , 1 Min = 1/80

C = 75 min , 1 Min = 1/75

(12+16+4.33)/72 +(12+16+4.33)/80 + 12/75 – 4.33/X = 1

X = 329.2 min

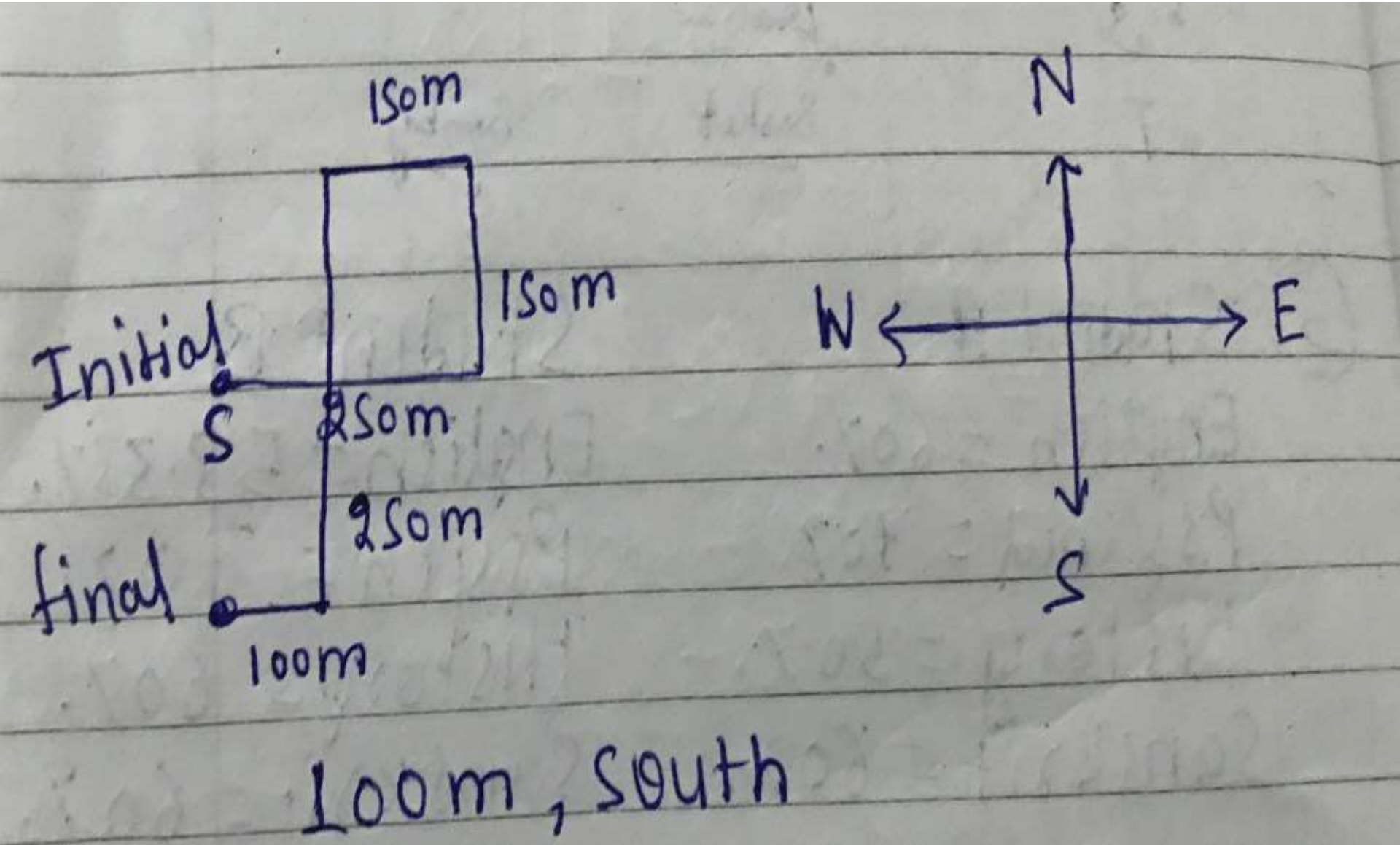
(4.33/329.2)/(4.33/72) X 100 = 22%

GOLDMAN SACHS-2020

Sharan, a marketing executive travelled along streets and sold his goods. He started from a schools towards east and travelled for 250m, then he took left and travelled for 150m, then again he turned left and travelled for 150m then again he turned left and travelled for 250m then finally he turned right and stopped after travelling for 100m. How far is sharan from school and is in which direction?

A. **150m, north**
B. **100m, south**
C. **150m, south**
D. **100m, north**

EXPLAINATION



GOLDMAN SACHS-2020

If 15+10=VIII ; 8+6 =X ,19+12=X then what is the value of 9+4=?

A. XI

B. VII

EXPLAINATION

Answer: XI

Step-by-step explanation:-

(15)^2-(10)^2= 125 (1+2+5= VIII)

8^2-6^2= 28 (2+8= X)

Similarly, 9^2-4^2= 65 (6+5= XI)

GOLDMAN SACHS-2020

At what percentage above the cost price must an article be marked so as to gain 33% after allowing a customer a discount of 5% ?

(a) 40%

(b) 45%

(c) 35%

(d) 47%

EXPLAINATION

SP = 1.33 CP

SP = 0.95 MP

0.95 MP = 1.33 CP

MP = 1.33 CP/0.95 = 1.4 CP

GOLDMAN SACHS-2020

In the product of two fractions 11/648 and 9/1375, how many zeros are there between the decimal point and the first non-zero digit after the decimal point. Pick ONE option

A)3

B) 4

C) 5

D) 6

EXPLAINATION

Answer- a) 3

On multiplying 11/ 648 * 9/ 1375= 1/ (72*125)= 0.000111

Thus, the number of zeros between the decimal point and the first non-zero digit after the decimal point = 3

GOLDMAN SACHS-2020

Purvik brings a certain number of sweets in a box to his class on his birthday. He distributes 1 sweet less than half the number of sweets in the box in the 1st period. Then in the 2nd period he distributes 2 sweets less than one-third of the remaining and then, in the 3rd period he distributes 3 sweets less than one fourth of the remaining.
If there are still 36 sweets left in the box, what was the initial number of sweets in the box?

EXPLAINATION

Let initial sweet X

[(((X/2)+1) 2/3)+2) ¾ + 3] = 36

X = 124

GOLDMAN SACHS-2020

Direction: Read the following information and answer the question given below.

P, Q, R, S and T are cousins. Each one of them has a favourite restaurant and likes to visit one of Bombay Diner, Rajas, My Thali, Pizzeria and Kingdom. Each one is a state level player in one of five :Cricket, Badminton, Squash, Chess and Basketball. Cricket Squash and Basketball are all ball games. Squash and Chess are indoor games
(i) P does not like Rajas and Kingdom restaurants, and plays a ball game.
(ii) 'Q' and 'S' do not play any ball game and one of them has Pizzeria as their favourite restaurant.
(iii) 'R' does not like the restaurant Kingdom and plays an indoor ball game.
(iV) T's favourite restaurant is Bombay Diner and is a basketball player.

Who plays Squash? Pick ONE option

a) P
b) Q
c) R
d) Cannot be determined

EXPLANATION

Answer = c

	BD	R	MT	P	K
P		N			N
Q					
R					N
S					
T	W				

SOLUTION:-

	C(B)	BAT MIN TON	SQU (I,B)	CHE S (I)	BAS (B)
P	Y		Y		Y
Q	N		N		N
R			Y		
S	N		N		N
T					Y

GOLDMAN SACHS-2020

Direction: Read the following information and answer the question given below.

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(iii) 'R' does not like the restaurant Kingdom and plays an indoor ball game.

(iV) T's favourite restaurant is Bombay Diner and is a basketball player.

P's favourite game and restaurant respectively are? Pick ONE option

a) Squash and rajas

b) Cricket and my thali

c) Chess and kingdom

d) Cannot be determined

EXPLANATION

Answer :- b

	BD	R	MT	P	K
P		N			N
Q				Y	
R					N
S				Y	
T	Y				

SOLUTION:-

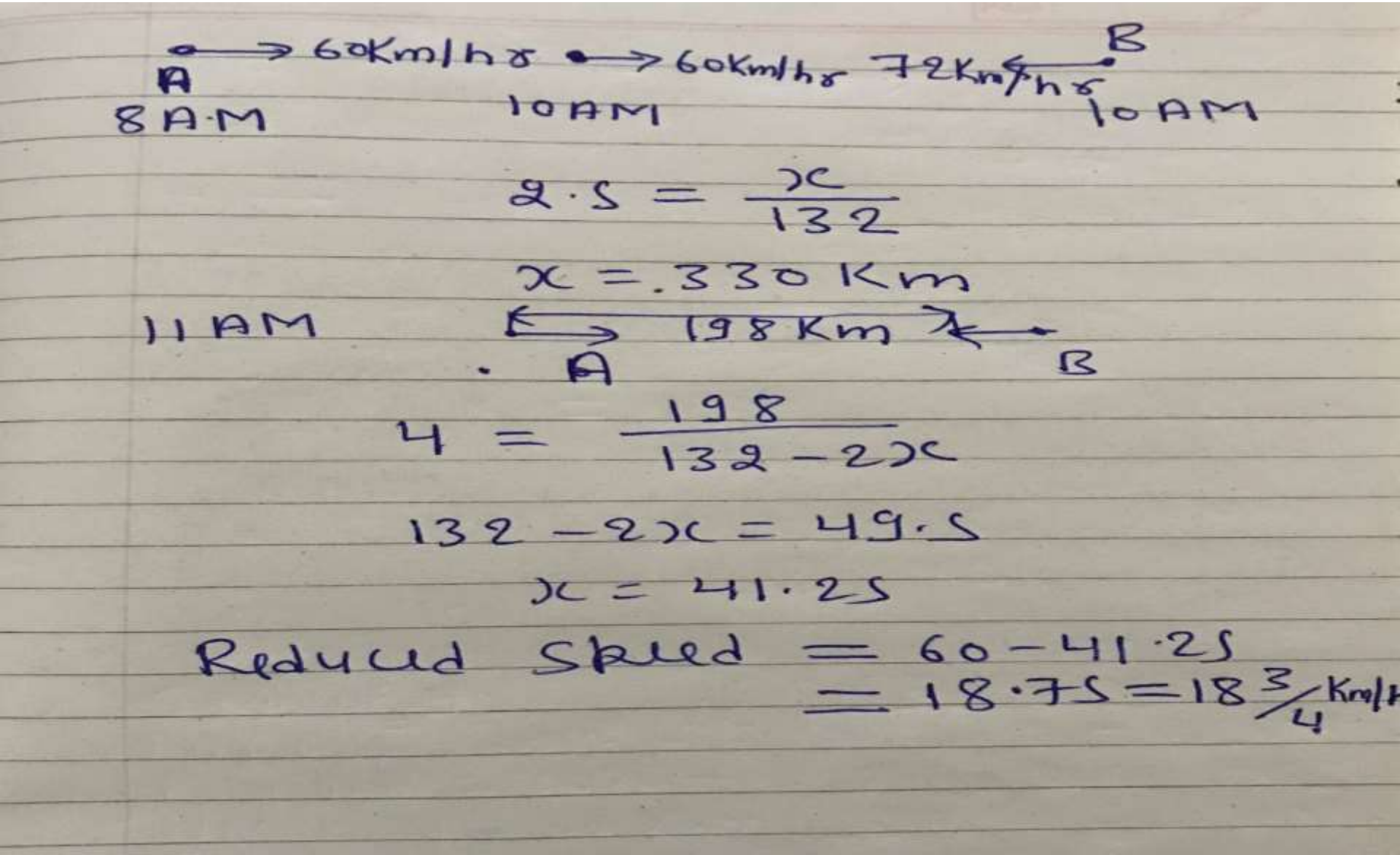
	C(B)	BAT MIN TON	SQU (I,B)	CHES (I)	BAS (B)
P	Y				
Q					
R			Y		
S					
T					Y

GOLDMAN SACHS-2020

A train started at 8 a.m. from station A with a speed of 60 km/hr. After 2 hours, another train started from station B towards A with a speed of 72 km/hr. The two trains are expected to cross each other at 12.30 p.m. Owing to signal problems arising at 11 a.m., the speed of each of them was reduced by the same quantity and they crossed each other at 3p.m. What is the new speed of the train that started from station A?

A. 18 (3/4)km/hr
B. 21 (1/3)km/hr
C. 41 (1/4)km/hr
D. 45 (3/4)km/hr

EXPLAINATION



GOLDMAN SACHS-2020

Find the next term in the series

XXVII, CXXV, CCCXLIII, DCCXXIX ,??

A. **MCCCXXXI**
B. **MDCCXXXII**
C. **MCCXCII**
D. **MCLXXI**

EXPLAINATION

ANSWER- A) MCCCXXXI

I = 1 , V = 5 , X = 10 , L = 50 ,C = 100 , D = 500 , M = 1000

XXVII = 10 + 10 + 5 + 1 + 1 = 27 = 3^3

CXXV = 100 + 10 + 10 + 5 = 125 = 5^3

CCCXLIII = 100 + 100 + 100 - 40 + 1 + 1 + 1 = 343 = 7^3

DCCXXIX = 500 + 100 + 100 + 10 + 10 +(-1+10) = 729 = 9^3

Hence next number will be 11^3 = 1331

1331 = 1000 + 100 + 100 + 100 + 10 + 10 + 10 + 1

1331 = MCCCXXXI

GOLDMAN SACHS-2020

What is the angle between the hour hand and minute hand at 5:20?

(a) 60

(b) 67 ½

(c) 40

(d) 35 ½

EXPLAINATION

$[[5X \pm (D^\circ /6)_{min}] \times (12/11)]$

$[5 \times 5 \pm D^\circ/6] \times 12/11 = 20$

$\pm D^\circ/6 = (20 \times 11)/12 - 25$

$\pm D^\circ/6 = -80/12$

$\pm D^\circ = -40^\circ$

$D = 40^\circ$

GOLDMAN SACHS-2020

How many three-digit numbers which are divisible by 7 can be formed using the first three prime numbers (without repetition)?

A) 1
B) 2
C) 4
D) 6

EXPLAINATION

ANSWER- A) 1

First three prime numbers are 2, 3 and 5

We need to form as many three digit numbers we can form from above given three prime numbers.

Number of ways to form three-digit number from three numbers = 3! = 6 ways

There will be 6 three-digit numbers which are as follows :-

235

253

325

523

352

532

Out of these numbers, only 532 is divisible by 7. So, only 1 number.

THANK YOU!