1). Kavi can row at the speed of 14kmph. If the rate of stream is 3.5kmph, it takes 2 hrs to him to reach a place and comes back. Then what is the distance between the places?
   a) 13.125km 
   b) 14.5km 
   c) 16.25 km 
   d) 17.5km 
   e) None of these

2). How many different ways the letters can be formed “HINDUSTAN” so that all the vowels never come together?
   a) 335600 
   b) 332550 
   c) 332640 
   d) 362310 
   e) None of these

3). 25380 is divided among p, q and r in such a way that p received 2/7 of q and r received. q received 3/5 of p and r together received. what is the amount received by p?
   a) 5440 
   b) 5710 
   c) 5640 
   d) 6600 
   e) none of these

4). If p:q:r=9:8:7 then (p/q):(q/r):(r/p) is equal to:
   a) 567:576:392 
   b) 576:567:392 
   c) 392:567:576 
   d) 476:567:576 
   e) none of these

5). A pipe can fill a tank in 6 hours, but due to a leakage it took 8 hours to fill the tank. If the tank is full, in what time will the tank become empty due to the leakage?
   a) 48hrs 
   b) 26hrs 
   c) 24hrs 
   d) 16hrs 
   e) None of these

6). A tank is filled in 5 hours by three pipes. A,B and C is twice as fast as B and B is twice as fast as A. How much time will pipe A alone take to fill the tanks?
   a) 25hours
b) 30 hours  
c) 35 hours  
d) 28 hours  
e) None of these

7). 20 men can complete a piece of work in 16 days, after 5 days from the start of work, some men left. If the remaining work was completed by remaining men in 18 1/3 days, how many men left after 5 days from the start of work?
   a) 12  
b) 5  
c) 8  
d) 7  
e) None of these

8). 20 men can do a piece of work in 20 days. Five days after they started the work, 10 more men joined them. How many days will they now take to complete the remaining work?
   a) 9 days  
b) 10 days  
c) 8 days  
d) 12 days  
e) None of these

9). A person travels from A to B at the speed of 50 km/hr and returns by increasing his speed by 40%. What is the average speed of both the trips?
   a) 58 1/3 hr  
b) 50 hr  
c) 55 2/3 hr  
d) 52 hr  
e) None of these

10). Suba got married 7 years ago. Her present age is 8/7 times of her age at the time of marriage. At the time of her marriage, her brother 5 years younger to her. What is the age of her brother after 10 years?
   a) 61 years  
b) 53 years  
c) 50 years  
d) 55 years  
e) None of these

11). Simple interest for the sum of Rs.1500 is Rs.50 in 4 years and Rs.80 in 8 years. Find the rate of SI?
   a) 0.5%  
b) 1%  
c) 1.5%  
d) 2%  
e) None of these
12). If a certain sum at compound interest becomes double in 5 year, then in how many years, it will be 16 times at the same rate of interest?
   a) 10 years
   b) 15 years
   c) 20 years
   d) Cannot be determined
   e) None of these

13). If the radius of a circle is increased by 50%, then its circumference will increase by
   a) 25%
   b) 50%
   c) 75%
   d) 100%
   e) None of these

14). The ratio between the angles of a quadrilateral is 3 : 4 : 6 : 5. Two – third the largest angle of the quadrilateral is equal to the smaller angle of a parallelogram. What is the value of adjacent angle of the parallelogram?
   a) 120°
   b) 110°
   c) 100°
   d) 130°
   e) None of these

15). An amount of Rs. 50,000 invested in two parts. The first yields an interest of 9% p.a. while second 11% p.a. If the total interest at the end of year is 9.75% of capital, find the amount invested in latter part?
   a) Rs. 17850
   b) Rs. 18500
   c) Rs. 18650
   d) Rs. 18750
   e) None of these

16). A, B and C invested their capitals in the ratio of 2 : 3 : 5. At the end of the business, they received the profits in the ratio of 3 : 6 : 2. What is the ratio of time for which they contributed their capitals?
   a) 6 : 17 : 1
   b) 15 : 20 : 4
   c) 8 : 4 : 1
   d) Cannot be determined
   e) None of these

17). If the radius and heights of the two cylinders are 4 : 7 and 3 : 8, then what is the ratio of its volume?
   a) 14 : 9
   b) 6 : 49
18. The ratio of $16^{3.5} : 8^3$ is same as -----
   a) 24 : 1  
   b) 16 : 2  
   c) 32 : 1  
   d) 4 : 5  
   e) 0.4 : 2

19. In how many different ways can the letters of the “PRODUCTION” are to be arranged so that the vowels should come together?
   a) 15120  
   b) 30240  
   c) 60480  
   d) 120960  
   e) None of these

20. A, B and C started a business by investing Rs.45000, Rs.55000 and Rs.60000, respectively. At the end of a year, they got a total profit of Rs.11200. Find how much B gets more than A in the profit?
   a) Rs. 700  
   b) Rs. 750  
   c) Rs. 710  
   d) Rs. 780  
   e) None of these

21. The average of the present ages of Shashi and Ravi is 36 years. If Shashi is eight years older than Ravi, what is the present age of Ravi?
   a) 30 years  
   b) 34 years  
   c) 32 years  
   d) 40 years  
   e) None of these

22. The ratio of the present ages of Ram, Rohan and Raj is 3 : 4 : 5. If the average of their present ages is 28 years then what would be the sum of the ages of Ram and Rohan together after 5 years?
   a) 45 years  
   b) 55 years  
   c) 52 years  
   d) 59 years  
   e) None of these
23). The sum of 8 consecutive odd numbers is 656. Also, the average of four consecutive even numbers is 87. What is the sum of the smallest odd number and the second largest even number?
   a) 165  
   b) 175  
   c) 163  
   d) Cannot be determined  
   e) None of these

24. A 320-metre-long train moving at an average speed of 120 kmph crosses a platform in 24 seconds. A man crosses the same platform in 4 minutes. What is the speed of the man in metre/second?
   a) 2.4  
   b) 1.5  
   c) 1.6  
   d) 2.0  
   e) None of these

25). The average weight of 21 boys was recorded as 64 kg. If the weight of the teacher was added, the average increased by one kg. What was the teacher’s weight?
   a) 86 kg  
   b) 64 kg  
   c) 72 kg  
   d) 98 kg  
   e) None of these

26). A truck covers a distance of 640 km in 10 hours. A car covers the same distance in 8 hours. What is the ratio of the speed of the truck to that of the car?
   a) 3 : 4  
   b) 1 : 2  
   c) 5 : 6  
   d) 6 : 7  
   e) None of these

27). A person bought a laptop and an android mobile at 15% loss and 10% profit respectively. The whole purchase he gains profit of 4%. He bought both the product in 15000. Find the cost price of android mobile.
   a) 9500  
   b) 9024  
   c) 5976  
   d) Can’t be determined  
   e) None of these

28). A shopkeeper sold an article at 12% discount and earned a profit 4%. Then how much marked price of an article more than cost price?(approx)
   a) Rs.7  
   b) Rs.8
29). Gaurav spends 40% of his allowance on hostel expenses, 20% on books and stationary, and 50% of the remaining on transport. He saves Rs. 450, which is half of the remaining amount after spending on the hostel expenses, books and stationary and transport. How much is his allowance?
   a) 4500
   b) 5000
   c) 3500
   d) 5500
   e) None of these

30). If the rate of sugar is increased by 20%, how much percent must a householder reduce his consumption of sugar so as not to increase his expenditure?
   a) 20%
   b) 12%
   c) 24%
   d) 22.56%
   e) 16.67%

31). After spending 20% on milk, 10% on cloths, 50% on food and 5% on electricity, Dinesh could buy 2 dozen pairs of socks from the balance income with him. He earned 100% profit by selling socks for Rs. 120. What was his income?
   a) Rs. 4000
   b) Rs. 400
   c) Rs. 600
   d) Rs. 800
   e) None of these

32). Sum of salaries of A, B and C is Rs 2450. Salary of A and B are in the ratio 2:3 and salary of B and C are in the ratio 4:5. Calculate B’s salary.
   a) 600
   b) 700
   c) 720
   d) 840
   e) 960

33). Four years ago, the ratio between the age of Ram and Shyam was 4:9 respectively. Sita is 5 yrs older than Ram. Sita is 5 yrs younger than Shyam. What is Sita's present age?
   a) 17 yrs
   b) 20 yrs
   c) 23 yrs
   d) 24 yrs
34). The simple interest for Rs. 500 at an interest rate 5% for certain period of time is equals to simple interest for Rs. 380 with same interest rate and time, when Rs. 36 is added to it. Then find the time?
   a) 3 years  
   b) 6 years  
   c) 9 years  
   d) 12 years  
   e) 5 years

35). A coin and a dice are thrown at random. What is the probability that a composite number turns up on the dice and then head turns up on the coin?
   a) 1/6  
   b) 1/4  
   c) 1/3  
   d) 1/2  
   e) None of these

36). Calculate the ratio of curved surface area and total surface area of a cone whose diameter is 40m and height is 21m.
   a) 21:32  
   b) 29:49  
   c) 25:52  
   d) 18:35  
   e) None of these

37). A can complete a piece of work in 8 days while B can complete the same work in 12 days. They work together for 3 days. Then A quits the work. In how many days will B now be able to finish the remaining work?
   a) 3 days  
   b) 5.2 days  
   c) 4.5 days  
   d) 2.4 days  
   e) 3.4 days

38). The amount obtained on Rs. 24000 at an interest 5% compounded annually for certain period of time is Rs 27,783. Then find the time in years?
   a) 2 years  
   b) 3 years  
   c) 4 years  
   d) 5 years  
   e) 1 year
39). A tank is filled in 6 hours by three pipes A, B and C. The pipe C is twice as fast as B and B is twice as fast as A. How much time will pipe A alone takes to fill the tank?
   a) 21 hours
   b) 36 hours
   c) 42 hours
   d) 10 hours 30 min
   e) None of these

40). What would be the compound interest obtained on an amount of Rs. 6000 at the rate of 4% per annum after 2 years?
   a) Rs. 501.50
   b) Rs. 389.6
   c) Rs. 489.6
   d) Rs. 430
   e) None of these

41). Five years ago the respective ratio between the ages of Sameer and that of Govinda was 5:7. Mokshada is 5 years older to Sameer and 5 years younger to Govinda. Calculate the present age of Mokshada?
   a) 20
   b) 25
   c) 30
   d) 35
   e) 40

42). In what ratio, water must be mixed with fruit juice costing Rs.24 per litre so that the juice would be worth of Rs.20 per litre?
   a) 1:4
   b) 1:5
   c) 1:6
   d) 2:5
   e) None of these

43). In an exam, Rakesh scored 52% marks and failed by 23 marks. In the same exam, Radhika secured 64% marks and scored 34 more than the passing marks. What is the score of Mohan in the same exam who secured 82% marks?
   a) 357.5
   b) 369
   c) 373
   d) 370.5
   e) 389.5

44). After spending 70%, 85% and 60% the ratio of savings of A, B and C is 7 : 9 : 6. What is the ratio of salary of A, B and C?
   a) 12 : 21 : 11
b) 21 : 48 : 21  
c) 14 : 36 : 9  
d) 30 : 45 : 20  
e) None of these

45). Sum of current ages of father and son is 70 years. Father told to his son, "20 years ago, I was of your present age." What will be the son's age 10 years from now?  
   a) 25 years  
   b) 45 years  
   c) 35 years  
   d) 50 years  
   e) 30 years

46). What is the value of twenty four per cent of four-ninths of five times the square of twenty seven?  
   a) 388.8  
   b) 376.8  
   c) 378.6  
   d) 346.6  
   e) None of these

47). Two trains A and B of equal lengths travelling at speeds of 72 kmph and 54 kmph in opposite directions respectively cross each other in 24 seconds. If they travel in the same direction in what time will the train A overtake the train B?  
   a) 132 sec  
   b) 144 sec  
   c) 156 sec  
   d) 168 sec  
   e) None of these

48). In a bag there are 6 blue ball pens and 7 red ball pens. Four ball pens are picked at random. What is the probability that two ball pens are blue and two ball pens are red?  
   a) 65/140  
   b) 23/143  
   c) 76/143  
   d) 63/143  
   e) 43/143

49). 6 men and 6 women together can complete a piece of work in 6 days. In how many days can 15 men alone complete the same work if 9 women alone can complete it in 10 days?  
   a) 5  
   b) 6  
   c) Can't be determined  
   d) 7  
   e) None of these
50). The circumference of two circles is 132 metres and 176 metres respectively. What is the difference between the area of the larger circle and the smaller circle?

a) 1048 sq. metres  
b) 1076 sq. metres  
c) 1078 sq. metres  
d) 1090 sq. metres  
e) 1104 sq. metres

Solution Key

1).
Answer: A)
Distance =T(x2 – y2 ) / (2x)
=> 2(14^2 – 3.5^2) /(2*14) =13.125km

2).
Correct Answer is:c
All the come together = 7! 3!
Total choices = 9!
All vowels never come together =9! -7! 3! =332640

3).
Answer: c
sol:
p+q+r=12345
p=2/7 (q+r)
=>q+r=(7/2)p
q=3/5(p+r)
p+(7/2)p=25380
p=25380*(9/2)=5640

4).
Answer: a
sol:
given p:q:r=9:8:7
let p=9a, q=8a and r=7a
p/q=9a/8a=9/8
q/r=8a/7a=8/7
r/p=7a/9a=7/9
(p/q):(q/r):(r/p)=(9/8): (8/7) : (7/9)
=(9*7*9/9*8*7):(8*9*8/9*8*7):(7*8*7/9*8*7)
=567:576:392

5).
Correct Answer is: c
\[
\frac{1}{6} - \frac{1}{8} = \frac{8}{48} - \frac{6}{48} = \frac{1}{24} \text{ hrs} = 24 \text{ hrs}
\]

6).
Correct Answer is: c)
A:B:C = 1:2:4
A’s part = 7*5 = 35 hours
(if a does the job alone)

7).
Answer: (c)
\[
20 \times 16 = 20 \times 5 + (20 - m) \times \frac{55}{3}
\]
\[
44 = (20 - m) \times \frac{11}{3}
\]
\[
M = 8
\]

8).
Answer: (b)
\[
20 \times 20 = 400 \text{ work}
\]
\[
20 \times 5 = 100
\]
Remaining work = 400 - 100 = 300
10 more men joined them, so,
\[
300/(20+10) = 10 \text{ days}
\]

9).
Correct Answer is: (a)
Average speed = \[
2 \times x \times y / (x + y) = 2 \times 50 \times 70 / 120 = 58 \frac{1}{3} \text{ km/hr}
\]

10).
Correct Answer is: a
\[
X = (8/7)(x + 7)
\]
X = 56 years
So at the time marriage = (x - 7) - 5 = 44 years
Present age = 44 + 7 = 51 years
After 10 years = 61 years

11).
S.I = \[
(P \times R \times T / 100)
\]
According to the question,
\[
= [(1500 \times R \times 8) / 100] - [(1500 \times R \times 4) / 100] = 80 - 50 (12000R - 6000R) / 100 = 30
\]
\[
6000R / 100 = 30
\]
\[
R = 30/60 = \frac{1}{2} = 0.5\%
\]
Answer: A

12).
Let Sum be X.
X becomes 2X in 5 years
2X becomes 4X in 10 years
4X becomes 8X in 15 years
Hence, 8X becomes 16X in 20 years
Answer: C

13).
Let the original radius be r.
New radius =150% of r = (3r/2)
Original circumference = 2πr
New circumference
= 2π × (3r/2) = 3πr
Increase percentage
{(3πr – 2πr) /2πr} × 100 = 50%
or increase in circumference will be same as increase in radius
r = 50%
Answer: b)

14).
3x + 4x +6x +5x = 3600,x = 20°
Largest angle of quadrilateral = 6x = 6 × 20° =120°
Smaller angle of parallelogram =120° × (2/3) =80°
So, the adjacent angle =100°
Answer: c)

15).
Correct Answer is: d) Rs. 18750

Amount invested in latter scheme = 0.75/2 * 50000 = Rs. 18750

16).
Profit = Investment × Time
:: Time = Profit / Investment
T= 3/2 : 6/3 : 2/5 = 1.5 : 2 : 0.4
T = 15 : 20 : 4
Answer: B

17).
Volume of the cylinder = (22/7)×r^2h
Ratio of two cylinders = (22/7)× (4)^2 × 3 : (22/7)× (7)^2 × 8
= 4 × 4 × 3 : 7 × 7 × 8 = 6 : 49
Answer: B
18).  
16^3 \cdot 5 : 8^3 16^3 \times 16^0.5 : 8^3 16^3 \times (16)^{(1/2)} : 8^3 (16 \times 16 \times 16 \times 4) : (8 \times 8 \times 8) = 32 : 1  
Answer: C

19).  
Correct Answer is: c  
PRODUCTION = 7!4! / 2! = 60480

20).  
Ratio of shares of A, B and C = 45000 : 55000 : 60000 = 9 : 11 : 12  
A’s share = (9/32) \times 11200 = Rs. 3150  
B’s share = (11/32) \times 11200 = Rs. 3850  
B’s share is more than A by (3850 – 3150) = Rs. 700  
Answer: a)

21).  
Answer: (3)  
Shashi + Ravi = 36 + 2 = 72  
Shashi = 8 + Ravi  
=> S \- R = 8 \- \underline{(1)}  
=> S + R = 72 \- \underline{(2)}  
By Combining these two, we get Shashi = 40 Years, Ravi = 32 years

22).  
Ans: 4  
Total of present ages of Ram, Rohan and Raj = 28 \times 3 = 84 yrs.  
12x = 84 => x = 7  
Ram’s present age = 3 \times 7 = 21 yrs  
Rohan’s present age = 4 \times 7 = 28 yrs.  
After five years Ram’s and Rohan’s age together = 21 + 28 + 10 = 59 yrs.

23).  
Ans: (3)  
Sum of consecutive odd or even no = n \{a + (n \- 1)\}; where ‘a’ is the smallest no.  
8(a + 7) = 656  
a = 82 – 7 = 75  
Average of odd or even nos. = L – (n – 1)  
where L = largest no.  
L = 4 – 1 = 87  
L = 3 = 87  
L = 90  
2nd largest even number = 88  
Reqd answer = 75 + 88 = 163

24).  
Ans: (4)  
120 km/h = 120 \times (5/18) = 100/3 \ m/s  
Distance covered by the train in 24 sec = (100/3) \times 24 = 800 m.  
Length of the platform = 800 – 320 = 480 m  
Speed of the man = 480/(4 \times 60) = 2 m/s
25). Ans: (1)
Shortcut:
Here person and weight both increased by one.
So directly we add, either 21+65 (or) 22+64.
Teacher’s weight=86 kg

26). Speed of the truck = 640/10=64km/ h
Speed of the car = 80km/ h
Ratio = 4 : 5

27). Answer: b
Let the cost price of laptop X and the cost of android (15000 -X)
(15000 –x) 10 – 15x = 4% 15000
150000-10 x -15x =600
X=5976(cost price of laptop)
Therefore cost price of android =15000 -5976
=9024

28). Answer: c
88 – 96
100 – x
X = (100*96) /88
= 109
Diff =109-100 = 9

29). Solution: (A)
Monthly allowance = Total value = 100%
HE + BS = 40% + 20% = 60%
Remaining amt = 100% - 60% = 40%
Transport = 50% of remaining = 50% of 40% = 20%
Total Expenditure = 60% + 20% = 80%
Remaining amt = 100% - 80% = 20%
Half of remaining ⇒ 50% of 20% = 10% = 450
Total allowance ⇒ 100% = x
By Cross multiplication, x = (450* 100)/10 = Rs. 4500

30). Ans: e
The increased expenditure of sugar=100+20=Rs.120
But the householder want to spend only Rs.100.He has to reduce sugar of Rs.20
Percentage of reduction = (20/120)*100
=16.67%

31). Ans: b
Balance income/cost of 2 dozen pair socks = 100-(20+10+50+5) = 15%
S.P of socks = Rs.120
C.P of socks = Rs.120/2 = Rs.60
I.e., 15% of his income = Rs.60
(15/100) x = 60
x = Rs.400

32).
Correct Answer is: d
A : B = 2 : 3 and B : C = 4 : 5
Combining these two, we get
A : B : C = 8 : 12 : 15
Also, Total salary is 2450.
Let their salaries be 8x, 12x and 15x
8x + 12x + 15x = 2450
=> 35x = 2450 => x = 70
B’s salary = 12 * 70 = 840.

33).
Correct Answer is: a
Let the ages of Ram and Shyam four years ago be 4x and 9x respectively.
=> Current age of Ram = 4x + 4.
Current age of Shyam = 9x + 4
Given that, 4x + 4 + 5 = 9x + 4 – 5
=> x = 2
=> Sita’s current age = (4x + 4 + 5) = 17yrs

34).
Correct Answer is: b
From the given data, P*T*R / 100 = (P*T*R / 100) + 36
500*5*T / 100 = (380*5*T / 100) + 36
500*5*T = 380*5*T + 3600
2500T = 1900T + 3600
600T = 3600
T = 6 years
Hence the required time T = 6 years.

35).
Correct Answer is: a
The probability of getting a composite number and a head = (2/6)*(1/2) = 1/6

36).
Correct Answer is: b
Diameter = 40m, r = 40/2 = 20m
H = 21m
l = √(20^2+21^2) = √(400+441) = √841 = 29 m

37).
Correct Answer is: c
A alone completes the work in 8 days. So, he does 1/8th of the work in 1 day.
B alone completes the work in 12 days. So, he does 1/12th of the work on 1 day.
Hence, total work completed together in 1 day
= (1/8) + (1/12) = 5/24

A and B work together for only 3 days.
Work completed together in 3 days = 3*(5/24) = 15/24
Amount of work that B has to complete alone = 1 – (15/24) = 9/24
Number of days that B will take to complete the work = (9/24) / (1/12) = 4.5 days
Hence, B can finish the remaining work in 4.5 days.

38).
Correct Answer is: b
We know that, A = P (1+R/100)T
27,783 = 24,000 (1+5/100)T
27,783/24,000 = (1+0.05)T
1.157625 = (1.05)T
(1.05)3 = (1.05)T
T = 3 years
Hence the required time = 3 years

39).
Correct Choice: c
Solution:
Let’s assume that the A takes a hours to fill the tank while working alone.
Therefore according to the question:
B will take 2a hours and C will take 4a hours to fill the tank while working alone.
Hence according to the question;
1/a+1/2a+1/4a=1/6
=> 7/4a=1/6
=> 4a = 42 => a =10.5

40).
Correct Choice: c
Solution:
Amount = P (1+R/100)T
= 6000(1+4/100)2
= 6000(1+1/25)2
= 6000*26/25*26/25
= Rs. 6489.6
Compound interest = Rs (6489.6 – 6000)
= Rs. 489.6

41).
Correct Answer is : d
Solution :
Let the present age of Mokshada be x.
Sameer’s present age = x – 5
Govinda’s present age = x + 5
As per given, the ratio of ages of Sameer and Govinda was 5:7 five years ago.
So, x – 10 : x = 5 : 7
On solving, we get x = 35
So, the present age of Mokshada is 35 years.
42). Answer: b) 1:5
Solution:
Cost of 1 litre of water = Rs. 0 = cheaper quantity.
Cost of 1 litre of juice = Rs. 24 = dearer quantity.
And, the mean price = m = Rs.20
Applying the rule of alligation,
\[
\begin{array}{ccc}
0 & 24 \\
20 & & 20 \\
4 & : & 20
\end{array}
\]
Therefore, (Cheaper quantity) : (Dearer quantity) = (d - m) : (m - c) = 4:20 = 1:5
Hence, the required answer is 1:5.

43). Correct Answer is: e
Let the maximum marks be M
Passing marks = 0.52M + 23 = 0.64M – 34
=> 0.12M = 57
=> M = 475

44). Correct Answer is: c
Let the salary of A, B and C be Rs 100a, Rs 100b and Rs 100c respectively.
According to the question; 30a : 15b : 40c = 7 : 9 : 6
=> a : b : c = 7/30:9/15:6/40
=> a:b:c=28:72: 18
=>a:b:c=14: 36:9

45). Correct Answer is : c
Solution:
Let the ages of father and son be F and S years respectively.
Hence, F + S = 70… (1)
According to the question, F – 20 = S
=> F – S = 20… (2)
From Equation (1) and (2) we will get,
F = 45 years and S = 25 years
Hence son’s age 10 years from now = 25 + 10 = 35 years

46). Reqd value = (27)2 x 5 x 4/9 x 24/100 = 388.8

47). Correct Answer is : d
Let ‘s’ be the length of each train. Relative speed of train A with respect to train B travelling in opposite directions
= 54 + 72 =126kmph
= 126 x 5/18 = 35 m/s.
= 2s/35 = 24
2s = 840 m s
= 420 m.
Therefore time taken by the train A to overtake train B = [(420 + 420)/ ((72 – 54)* (5/ 18))]
= 840/5 = 168 sec.

48). 
Total number of ball pens = n(S)
= 6 + 7 = 13
Reqd probability (6C2 x7C2)/ 13C4= (15x 21)/715 = 63/143

49).
Correct Answer is: E
9 women can complete’ the work in 10 days
6 women can complete the work in 10*9/6 = 15 days
6 women in 6 days complete 6/15 = 2/5part
The remaining (1- 2/5) =3/5 part will be completed by 6 ‘men in 6 days
So, 6 men’s work in 1 day = = 3/5×6 = 1/ 10 part .
6 men can complete the work in 10 days
15 men can complete the work in 6 *10/15 = 4 days

50).
Correct Answer is : C
Solution :
R1 = 132 x 7/(2 x 22) = 21 m
R2 = 176 x 7/(2 x 22) = 28 m
Difference in area = 22/7 x (282 – 212)
= 22/7 x 343 = 1078 sq m
Hence option C
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