



## TOP 50 Application Sums for Clerk Prelims Exams

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- 1) The perimeter of a rectangular field is thrice the perimeter of a square field. If one of the sides of the square field is 24 m and breadth of the rectangular field is 48 m then find the area of the rectangular field?**  
a) 4276 Sq m      b) 5354 Sq m      c) 3892 Sq m      d) 4608 Sq m      e) None of these
- 2) A, B and C entered into a partnership with investment of Rs. 24000, Rs. 32000 and Rs. 48000 respectively. After one year A withdrew Rs. 4000 and B invested Rs. 8000 more. And after one more year A invested Rs. 15000 more and C withdrew Rs. 8000. At the end of three years, they earned a profit of Rs. 114450. Find the share of A in the total profit?**  
a) Rs. 33500      b) Rs. 30250      c) Rs. 27650      d) Rs. 35750      e) None of these
- 3) If 33 men can do a piece of work in 15 days by working for 8 hours then find in how many days 44 men can do the same work by working 6 hours a day?**  
a) 15 days      b) 18 days      c) 20 days      d) 12 days      e) None of these
- 4) The difference between simple interest and compound interest on Rs. 35000 at the rate of 12 % per annum for 2 years is?**  
a) Rs. 782      b) Rs. 504      c) Rs. 656      d) Rs. 958      e) None of these
- 5) Incomes of Rajesh and Mani are in the ratio 8: 9 and their expenditures are in the ratio of 33: 37. If Rajesh saves Rs. 14000 and Mani saves Rs. 16000, then find the income of Rajesh?**  
a) Rs. 35000      b) Rs. 50000      c) Rs. 80000      d) Rs. 60000      e) None of these
- 6) In an election between two candidates, 20 % of the voters didn't vote and 160 votes are declared invalid. The winner gets 39 % of the votes and declared win by 310 votes. Then find the number of voters in the voting list?**  
a) 6000      b) 4500      c) 6250      d) 6500      e) None of these
- 7) The difference between simple interest and compound interest accrued on an amount of Rs. 34000 at the end of two years is Rs. 217.6. Find the sum (approx)?**  
a) 8      b) 12      c) 10      d) 15      e) None of these
- 8) P, Q and R invested in the ratio of 4: 7: 9. After 6 months, P invested Rs. 5000 more and after 2 months, R withdraws Rs. 7500. Find the initial investment of Q, if the share of P, Q and R is in the ratio of 17: 28: 35?**  
a) Rs. 70000      b) Rs. 35000      c) Rs. 48000      d) Rs. 66000      e) None of these

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9) A man rows to a place 120 km distance and come back in 8 hours. He finds that he can row 20 km with the stream in the same time as 12 km against the stream. The rate of the stream is?

- a) 12 km/hr      b) 8 km/hr      c) 10 km/hr      d) 16 km/hr      e) None of these

10) Manoj got 42 % of marks in the examination and failed by 27 marks. Another student Preetha got 57 % of marks and got 18 more than the passing marks. Find the passing percentage in the examination?

- a) 51 %      b) 43 %      c) 55 %      d) 48 %      e) None of these

11) Mano sold a book at a loss of 13 %. If he had sold that book for Rs. 84 more, he would have gained 15 %. Find the selling price of the book to get a profit of 20 %?

- a) Rs. 360      b) Rs. 420      c) Rs. 480      d) Rs. 500      e) None of these

12) A certain sum is divided among A, B and C in such a way that, A gets 120 more than two-fifth of the sum. B gets 190 less than one-fourth of the sum and C gets Rs. 420. What is the 65 % of the total sum?

- a) Rs. 650      b) Rs. 500      c) Rs. 400      d) Rs. 525      e) None of these

13) A can do  $\frac{1}{3}$  of the work in 5 days, B can do  $\frac{2}{5}$  of the work in 10 days. Then in how many days both of them together can do the work?

- a)  $7\frac{3}{4}$  days      b)  $8\frac{5}{6}$  days      c)  $10\frac{7}{9}$  days      d)  $9\frac{3}{8}$  days      e) None of these

14) The simple interest accrued on an amount of Rs. 15,000 at the end of two years is Rs. 2400. What would be corresponding Compound Interest?

- a) Rs. 2496      b) Rs. 2512      c) Rs. 2538      d) Rs. 2474      e) None of these

15) In what ratio water be mixed with milk to earn a profit of 40 % by selling the mixture at cost price?

- a) 7 : 4      b) 5 : 2      c) 6 : 5      d) 2 : 7      e) None of these

16) A man takes to row 120 km along the stream is one-third of the time taken to row against the stream. Find the speed of the boat in still water if the speed of stream is 8 km/hr?

- a) 18 km/hr      b) 20 km/hr      c) 16 km/hr      d) 14 km/hr      e) None of these

17) An article was sold at a discount of 25 % and there was a profit of 20 %. If the profit earned was Rs. 100 less than the discount offered, then find the selling price of the article?

- a) Rs. 650      b) Rs. 700      c) Rs. 750      d) Rs. 600      e) None of these

18) A basket contains 7 White, 5 Black, 2 Pink and 4 Green balls. If three balls picked up random, then find the probability that all three are Green balls?

- a)  $\frac{1}{204}$       b)  $\frac{15}{157}$       c)  $\frac{37}{218}$       d)  $\frac{23}{512}$       e) None of these

19) 5 years ago, the ages of Agila and Hema are in the ratio of 3: 2. Three years ago, Agila's age is equal to Hema's age after 2 years. Then find the present age Agila?

- a) 18 years      b) 24 years      c) 26 years      d) 20 years      e) None of these

20) A can do a piece of work in 24 days; B can do it in 30 days. They started the work together but A left 6 days before the completion of the work. The work has finished in?

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- a) 12 days                      b) 15 days                      c) 50/3 days                      d) 25/3 days                      e) None of these

**21. Seven by eight of a number exceeds its two by fifth of number by 38. Find what is the number?**

- a) 75                      b) 80                      c) 85                      d) 87                      e) None of these

**22. A can complete the work in 16 days, B can complete the work in 24 days and C is half efficient than A. B and C started the work and every 3rd day, they are replaced by A. What is total time taken to complete the total work by them?**

- a) 15  $\frac{1}{6}$  days                      b) 12  $\frac{3}{4}$  days                      c) 14  $\frac{1}{3}$  days                      d) 16  $\frac{1}{5}$  days                      e) None of these

**23. A started a resort with an investment of 12,000. After 6 months, B and C joined the business with an investment of 8000 and 9000 respectively. A acts as a working partner and receives 5% as a salary from total profit. At the end of 2 year, the profit will be 20000 then, what is the amount earned by A?**

- a) 12121.12                      b) 10202.12                      c) 10212.12                      d) 14212.12                      e) None of these

**24. A man bought  $\frac{1}{3}$  part of Apples at 30/kg and remaining quantity of Apples at 33/kg. Mixed it and sold it for 40/ kg. Find the overall profit percentage**

- a) 20%                      b) 25%                      c) 30%                      d) 32%                      e) None of these

**25. There are 4 women and 3 men. To form a committee there is a need of 3 people. What is the probability of choosing atleast 1 man?**

- a)  $\frac{31}{35}$                       b)  $\frac{4}{35}$                       c)  $\frac{1}{7}$                       d)  $\frac{6}{7}$                       e) None of these

**26. Two dice are thrown. Find the probability of getting a sum of number which is not prime?**

- a)  $\frac{5}{12}$                       b)  $\frac{7}{12}$                       c)  $\frac{11}{12}$                       d)  $\frac{3}{4}$                       e) None of these

**27. Train a, whose length is 120 m, which is running at a speed of 30m /s can, crosses the platform length in 20s. Then what is the length of the platform?**

- a) 520 m                      b) 420 m                      c) 480 m                      d) 410 m                      e) None of these

**28. What is the time taken by boat to row upstream to cover a distance of 48km. If the speed of in still water 16kmph and speed of current 4kmph.**

- a) 6hrs                      b) 10hrs                      c) 9hrs                      d) 8hrs                      e) None of these

**29. The radius of the circular ground is 24m and area of inner circle 616m<sup>2</sup>. Find the radius of circular track?**

- a) 10m                      b) 12m                      c) 15m                      d) 9m                      e) None of these

**30. 5 years ago the age ratio between Rita and geetha 5:6 and 5 years hence their age ratio becomes 6:7. What is the present age of Geetha?**

- a) 60                      b) 65                      c) 70                      d) 55                      e) None of these

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31. A started a business with an investment of 8000 and 3 months after B takes over the business with same capital, after six months C invested 7500 and A entered business for last three months with half of his initial investment. find the profit percentage of A if the total interest is 6000 at the end of the year.

- a) 33.33%      b) 26.67%      c) 100/7%      d) 25%      e) None of these

32. Manufacturer marked up his goods price 25% more than its cost price. One shopkeeper bought goods from the manufacturer at 10% discount and he sold it at Rs.1800 which gives 20% of profit. Find the original Approximate cost price of goods?

- a) 1333      b) 1666      c) 2166      d) 1566      e) None of these

33. What is the present age of Rahul, if his father is 5 times of Rahul three ago and their age ratio will be 11:3 after two years?

- a) 10      b) 12      c) 13      d) 11      e) none of these

34. what is probability of forming rectangle by 4 vertical lines and 3 horizontal lines?

- a) 17/35      b) 18/35      c) 17/30      d) 13/30      e) None of these

35. 15 men and 2 wardens lived in the hostel. their Avg weight will be 32 kg and one warden left and one new man newly joined in the hostel. Now the average weight is 28kg. then What is the weight of teacher left?

- a) 89yrs      b) 92yrs      c) 78 yrs      d) 88 yrs      e) None of these

36. By throwing 2 dices, What is the probability of getting a sum of number which is divisible by 3?

- a) 1/2      b) 1/3      c) 5/12      d) 1/6      e) 3/4

37. what is volume of cylinder whose radius is 2 times of breadth of rectangle whose perimeter is 90cm, and length and breadth is in the ratio of 2:1 and cylinder height is equal side of square whose diagonal value is  $20\sqrt{2}$  cm ?

- a) 47852 cm<sup>3</sup>      b) 26871 cm<sup>3</sup>      c) 56571 cm<sup>3</sup>      d) 69879 cm<sup>3</sup>      e) 17692 cm<sup>3</sup>

38. 12 men complete the work 15 days or 8 women can complete work in 25 days. 4 women and 6 men started the work and worked for five days. what is time taken by 12 women to complete the remaining work?

- a) 12 (5/9)      b) 13 (7/9)      c) 12 (1/9)      d) 12 (2/9)      e) 15 (1/9)

39. In a hostel, the available food is enough for 20 days. If 10 more students are joined the hostel, the food will be emptied in 15 days. find the availability of food?

- a) 600      b) 550      c) 500      d) 650      e) None of these

40. Two pipes p and Q can fill the tank within 12 hours and 18 hours respectively. an outlet pipe which is having capacity to empties the tank in 36 hrs. If all three pipes are opened, How long it will take to fill the tank?

- a) 8 hours      b) 9 hours      c) 10hours      d) 12 hours      e) None of these

41. Diameter of circle is 3/5th of sum of length and breadth of rectangles. The perimeter of rectangles is 60m. and length of rectangle is 1.5 times of breath of rectangle. Find the area of circle?

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- (a). 306.5m<sup>2</sup>      (b).216.5m<sup>2</sup>      (c) .254.5 m<sup>2</sup>      (d).297.5 m<sup>2</sup>      (e).None of these

**42. Average age of Harish and Nithish before 3 years was 24 years. Sum of present Ages of Harish, Nithish and Kajol is 84 years. then What is sum of ages of Harish and Kajol, 5 years ago, if Harish and Nithish present age will be in the ratio of 5:4?**

- (a).54years      (b).55years      (c).50 years      (d).65 years      (e).None of these

**43. A started a business with an investment of 25,000 and after the three B joined with an investment of 35,000 and A withdraws 5,000. C invested 40000 for last 3 month. What is profit earned by B at the end of the year if the total profit is 7500?**

- (a). Rs.3375      (b).Rs.2625      (c).Rs. 1000      (d).Rs.3625      (e).None of these

**44. What is the probability of choosing 2 face cards in that at most one card is black?**

- (a).1/26      (b).1/13      (c).1/12      (d) .1/52      (e).None of these

**45. Marked Price of an article gives 30% of profit in its cost price. if Shopkeeper gives 10%, 15% successive discount on the article, he sold the article at Rs.1989. Then What is the selling price of an article if he sells the article at 115% of original cost price?**

- (a).Rs.1750      (b).Rs.2250      (c) . Rs.2000      (d).Rs.2300      (e).None of these

**46. A can complete the work in 12 days and B can complete the same work in 20 days .A and B started the work and worked for 5 days. Remaining work is completed by C in 5 days. Then what is the time taken by all together to complete the work?**

- (a).5 days      (b).6 days      (c).7 days      (d).8 days      (e).None of these

**47. A completes his walking on circular ground by 36 minutes and B completes his walking on another circular ground by 90 minutes. The total length of Ground 1 is 3/5 times of the total length of Ground 2. Find the speed ratio of B to A?**

- (a). 2:3      (b).3:2      (c) 4:1      (d) 1:4      (e).None of these

**48. 6 unbiased coins are tossed and what is the probability of getting more or equal heads than tails (without repetition)?**

- (a).11/32      (b).21/32      (c).25/32      (d).13/64      (e).None of these

**49. The compound interest for principle X is 1025 for 2 years and the simple interest on same principle is 1000. In same way, the rate of interest and no. of year is calculated, now What will be the principle for Simple interest of 1500?**

- (a).2500      (b).3500      (c).3750      (d). 4000      (e).None of these

**50. In a container there is 160 liter of mixture of milk and water. the respective ratio milk to water is 5: 3. 40 liter of mixtures is taken out and replaced with pure milk. Then what is the new ratio of milk to water?**

- (a).9:25      (b).23:9      (c) 9:23      (d) 25:9      (e).None of these

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### Solution

**1. Answer: d)**

**Explanation:**

Perimeter of square field =  $24 \times 4 = 96$  m

Perimeter of the rectangular field =  $96 \times 3 = 288$  m

Let the length of the rectangular field be  $x$

$$288 = 2 \times (x + 48)$$

$$288 - 96 = 2x$$

$$X = 96 \text{ m}$$

Area of the rectangular field =  $96 \times 48 = 4608$  Sq. M

**2. Answer: c)**

**Explanation:**

The share of A, B and C,

$$=> (24000 \times 1 + 20000 \times 1 + 35000 \times 1) : (32000 \times 1 + 40000 \times 2) : (48000 \times 2 + 40000 \times 1)$$

$$=> 79000 : 112000 : 136000$$

$$=> 79 : 112 : 136$$

Total profit = Rs. 114450

$$327's = 114450$$

$$1's = 350$$

The share of A =  $79's =$  Rs. 27650

**3. Answer: a)**

**Explanation:**

Let the number of days required be  $x$ ,

$$M1 \times D1 \times H1 = M2 \times D2 \times H2$$

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$$33*15*8 = 44*6*x$$

$$X = (33*15*8)/(44*6)$$

$$X = 15 \text{ days}$$

#### 4. Answer: b)

##### Explanation:

The difference between simple interest and compound interest on certain time for 2 years is,

$$\Rightarrow \text{Diff} = \text{Sum}*(r/100)^2$$

$$\Rightarrow \text{Diff} = 35000*(12/100)^2$$

$$\Rightarrow \text{Diff} = 35000*(3/25)^2$$

$$\Rightarrow \text{Diff} = 35000*(9/625) = \text{Rs. } 504$$

#### 5. Answer: c)

##### Explanation:

Incomes and Rajesh and Mani are in the ratio = 8 : 9 (8x, 9x)

According to the question,

$$(8x - 14000)/(9x - 16000) = 33/37$$

$$\Rightarrow 296x - 518000 = 297x - 528000$$

$$\Rightarrow 10000 = x$$

$$\text{Income of Rajesh} = \text{Rs. } 80000$$

#### 6. Answer: c)

##### Explanation:

20 % of the voters didn't vote. Remaining 80 % of the voters. 160 votes are declared invalid. So, the valid votes are 75 % of the voters - 160. The winning candidate gets According to the question,

$$39 \% \text{ of } 80\% \text{ of the voters} - (36 \% \text{ of } 80\% \text{ of the voters} - 160) = 310$$

$$80/100 * 3/100 * \text{total voters} + 160 = 310$$

$$3/100 * 80/100 * \text{total voters} = 150$$

$$\text{Total voters in the voting list (100 \%)} = (150/3) * 100 * 100/80 = 6250$$

#### 7. Answer: a)

##### Explanation:

$$\text{Diff} = p (R/100)^2$$

$$217.6 = 34000 * (R/100)^2$$

$$2176000/34000 = R^2$$

$$82 = R^2$$

$$8 = R$$

#### 8. Answer: a)

##### Explanation:

The share of P, Q and R

$$\Rightarrow [4x*6 + (4x + 5000)*6] : [7x*12] : [9x*8 + (9x - 7500)*4] = 17 : 28 : 35$$

$$\Rightarrow [24x + 24x + 30000] : [84x] : [72x + 36x - 30000] = 17 : 28 : 35$$

$$\Rightarrow [48x + 30000] : [84x] : [108x - 30000] = 17 : 28 : 35$$

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According to the question,

$$(48x + 30000)/84x = (17/28)$$

$$48x + 30000 = 51x$$

$$3x = 30000$$

$$X = 10000$$

The initial investment of Q =  $7x$  = Rs. 70000

### 9. Answer: b)

#### Explanation:

$$\text{Speed of downstream} = 20/x$$

$$\text{Speed of upstream} = 12/x$$

$$120/(20/x) + 120/(12/x) = 8$$

$$6x + 10x = 8$$

$$16x = 8$$

$$X = 1/2$$

So, Speed of downstream = 40 km/hr, Speed of upstream = 24 km/hr.

Rate of the stream =  $\frac{1}{2}(\text{Speed of downstream} - \text{Speed of upstream})$

$$= > \frac{1}{2}(40 - 24)$$

$$= > \frac{1}{2} * 16 = 8 \text{ km/hr}$$

### 10. Answer: a)

#### Explanation:

Let the total marks be  $x$ ,

Here passing mark is equal. So,

$$42 \% \text{ of total marks} + 27 = 57 \% \text{ of total marks} - 18$$

$$27 + 18 = (57 \% - 42 \% ) \text{ of total marks}$$

$$45 = 15 \% \text{ of total marks}$$

$$(15/100)*x = 45$$

$$X = 45*(100/15) = 300$$

$$\text{Pass mark} = (42/100)*300 + 27 = 126 + 27 = 153$$

$$\text{Pass \%} = (153/300)*100 = 51 \%$$

### 11. Answer: a)

#### Explanation:

Let the cost price be Rs.  $X$ ,

$$X*(87/100) + 84 = x*(115/100)$$

$$(115x/100) - (87x/100) = 84$$

$$28x/100 = 84$$

$$X = 84*(100/28)$$

$$X = 300$$

Cost price = Rs. 300

$$\text{Selling price} = 300*(120/100) = \text{Rs. } 360$$

### 12. Answer: a)

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### Explanation:

$$\text{Total sum} = X = A + B + C$$

$$A = (2/5) * X + 120$$

$$B = X/4 - 190$$

$$C = 420$$

$$\text{Total sum}(X) = (2X/5) + 120 + (X/4) - 190 + 420$$

$$X = (8X + 5X)/20 + 350$$

$$X - (13x/20) = 350$$

$$7x/20 = 350$$

$$X = 1000$$

65 % of the total sum

$$=> 1000 * (65/100) = \text{Rs. } 650$$

### 13. Answer: d)

#### Explanation:

A can do the work in,

$$=> (1/3) * \text{work} = 5$$

$$=> \text{Whole work} = 15 \text{ days}$$

B can do the work in,

$$=> (2/5) * \text{work} = 10$$

$$=> \text{Whole work} = 25 \text{ days}$$

$$(A + B)'s \text{ one day work} = (1/15) + (1/25) = 40/(15 * 25) = 8/75$$

$$(A + B) \text{ can do the work in, } 75/8 = 9 \frac{3}{8} \text{ days}$$

### 14 Answer: a)

#### Explanation:

$$S.I = PNR/100$$

$$2400 = (15000 * 2 * R)/100$$

$$R = (2400 * 100)/30000$$

$$R = 8 \%$$

Corresponding CI:

$$15000 * (8/100) = 1200$$

$$16200 * (8/100) = 1296$$

$$C.I = 1200 + 1296 = \text{Rs. } 2496$$

### 15. Answer: b)

#### Explanation:

Let the cost price be Rs. 1,

Selling price of mixture = Rs. 1

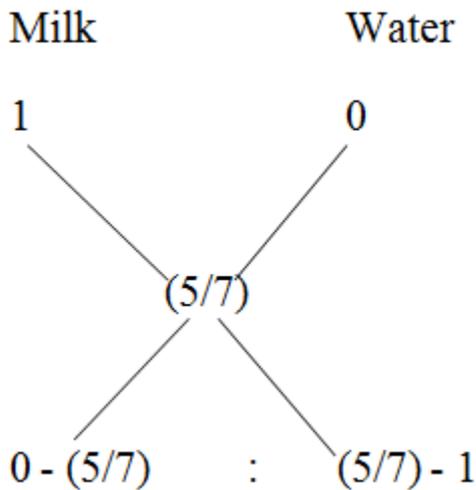
$$\text{Cost price of mixture} = 1 * 100/140 = 5/7$$

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$$\Rightarrow - (5/7) : - (2/7)$$

$$\Rightarrow 5 : 2$$

**16. Answer: c)**

**Explanation:**

Let us take the speed of the boat in still water be  $x$  km/hr,

$$120/(x+8) = (1/3) * (120/(x-8))$$

$$3x - 24 = x + 8$$

$$2x = 32$$

$$X = 16$$

Speed of the boat in still water = 16 km/hr

**17. Answer: d)**

**Explanation:**

Let the cost price be  $x$ ,

$$\text{Selling price} = (120/100) * x = 6x/5$$

$$\text{Marked price} * (75/100) = 6x/5$$

$$\text{MP} = 8x/5$$

The profit earned was Rs.100 less than the discount,

According to the question,

$$\Rightarrow (8x/5 - 6x/5) - (6x/5 - x) = 100$$

$$\Rightarrow 2x/5 - x/5 = 100$$

$$\Rightarrow x/5 = 100$$

Cost price = Rs. 500

Selling price =  $500 * (120/100) = \text{Rs. } 600$

**18. Answer: a)**

**Explanation:**

Total Balls = 18

Required Probability =  $4C3 / 18C3 = 1/204$

**19. Answer: d)**

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### Explanation:

5 years ago, Agila: Hema = 3: 2 (3x, 2x)

Present ages of Agila and Hema = 3x + 5, 2x + 5

Three years ago, Agila's age is equal to Hema's age after 2 years,

$$\Rightarrow 3x + 2 = 2x + 7$$

$$\Rightarrow x = 5$$

Present age of Agila = 3x + 5 = 20 years

### 20. Answer: c)

#### Explanation:

$$(x - 6)/24 + x/30 = 1$$

$$(30x - 180 + 24x)/720 = 1$$

$$54x - 180 = 720$$

$$54x = 900$$

$$X = 900/54 = 50/3 \text{ days}$$

### 21. Ans: B

#### Sol:

$$7/8 X - 2/5 x = 38.$$

$$35X - 16X / 40 = 38$$

$$19X / 40 = 38$$

$$X = (38*40) / 19 = 80.$$

### 22. Ans: C

#### Sol:

96 (LCM)

$$A = 16 = 6$$

$$B = 24 = 4$$

$$C = 32 = 3$$

B and C started the work and worked for two days = 2\*(4+3) = 14

3rd days A's turn = 6

Total work done by One time (iteration) = 14+6 = 20

Total work can be done in = 96 / 20 = 4 16/20

On 4 day they can complete 80 parts of work.

The remaining 16 parts can be by following way

First day = B+ C = 7, Second day = 7, third day = 16-14 = 2part and it should be done by A.

$$A=6 = 2/6 = 1/3 \text{ day}$$

Total work can be completed in = (4\*3) + 2 + 1/3 = 14 1/3 days.

### 23. Ans: C

#### Sol:

$$A: B: C = (12000*24) : (18 * 8000) : (9000*18)$$

$$= 16: 8:9$$

5% amount given for A (Working Partnership) = 20000 \* (5/100) = 1000

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A's profit =  $(19000 / 33) * 16 = \text{Rs. } 9212.12$   
Amount earned by A =  $1000 + 9212.12 = \text{Rs. } 10212.12$

**24. Ans: B**

**Sol:**

Let us assume total quantity 300

Total price:

$$\text{Profit} + (30 * 300 / 3) + (33 * 300 * 2 / 3) = 40 * 300$$

$$P + 10 * 300 + 22 * 300 = 12000$$

$$P = 2400$$

$$\text{Total profit} = (2400 / 9600) * 100 = (1/4) * 100 = 25\%$$

**25. Ans: A**

**Sol:**

$$3 \text{ people} = 3C1 * 4C2 + 3C2 * 4C1 + 3C3 * 4C0 = (3 * 6) + (3 * 4) + (1 * 1) = 31$$

$$\text{Total possibility} = 7C3 = (7 * 6 * 5) / (3 * 2) = 35$$

$$\text{Probability} = 31/35.$$

**26. Ans: A**

**Sol:**

Prime numbers will be 2, 3, and 5, 7, 11.

Probability:

$$2 - (1, 1)$$

$$3 - (1, 2), (2, 1)$$

$$5 - (1, 4), (2, 3), (3, 2), (4, 1)$$

$$7 - (1, 6), (2, 5), (3, 4), (4, 3), (5, 2), (6, 1)$$

$$11 - (5, 6), (6, 5)$$

$$\text{Total possible ways} = 15$$

$$\text{Total probability} = 15 / 36 = 5/12.$$

**27. Ans: C**

**Sol:**

$$30 = (120 + X) / 20$$

$$600 = 120 + X$$

$$X = 600 - 120 = 480 \text{m.}$$

**28. Ans: D**

**Sol:**

$$\text{Speed of in still water} = (X + Y) = 16$$

$$\text{Speed of current} = (X - Y) = 4$$

By Adding,  $2X = 20$ ,

$$X = 10 \text{ kmph (down stream)}$$

$$Y = 6 \text{ kmph (Up stream)}$$

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Time taken =  $48 / 6 = 8$ hrs.

**29. Ans: A**

**Sol:**

Area of inner circle =  $\pi r^2 = 616$

$r^2 = 616 * 7 / 22 = 14m$

$R - r = 24 - 14 = 10m$

**30. Ans: B**

**Sol:**

$(5X + 10) / (6X + 10) = 6/7$ .

$X = 10$  years

5 years ago Age will be =  $10 * 6 = 60$

Present age =  $60 + 5 = 65$  years.

**31. Ans: B**

**Sol:**

A: B: C =  $(8000 * 3 + 4000 * 3) : (8000 * 9) : (7500 * 6)$

= 4: 6: 5

Profit =  $6000 / 15 * 4 = 400 * 4 = 1600$

Profit percentage =  $1600 / 6000 * 100$

= 26.67%

**32. Ans: A**

**Sol:**

Let Assume the cost price be X

marked price =  $1.25X$

Discounted price =  $1.25x * 0.9 = 1.125x$

$120 - 1800$

$100 = 1500$

$1500 = 1.125x$

$X = \text{Rs.}1333$  (approximate)

**33. Ans: C**

**Sol:**

$5X + 5 / X + 5 = 11/3$

$15x + 15 = 11x + 55$

$4x = 40$

$x = 10$

Present Age of Rahul =  $10 + 3 = 13$  years

**34. Ans: B**

**Sol:**

Possible probability =  $4C2 * 3C2$

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$$\begin{aligned}\text{Total possibility} &= 7C_4 \\ \text{total probability} &= \frac{4C_2 * 3C_2}{7C_4} \\ &= \frac{18}{35}\end{aligned}$$

**35. Ans: B**

**Sol:**

$$15m + 2w = (32 * 17)$$

$$16m + 1W = (28 * 17)$$

$$32m + 2w = 952$$

$$15m + 2W = 544$$

$$m = 24.$$

$$15 * 24 + 2W = 544$$

$$2W = 184$$

$$W = 92 \text{ yrs}$$

**36. Ans: B**

**Sol:**

$$\text{Total sample space} = 6^2 = 36 \quad \text{Total possibilities} = (2,1), (2,4), (3,3), (3,6), (4,2), (4,5), (5,1), (5,4), (6,2), (6,3) = 12$$

$$\text{Required probability} = \frac{12}{36} = \frac{1}{3}$$

**37. Ans: C**

**Sol:**

$$\text{Volume of cylinder} = \pi r^2 h$$

$$\text{Perimeter of a rectangle} = 2 * (l + b)$$

$$= 2 * (2x + x) = 6x = 90 \text{ cm}$$

$$\Rightarrow x = 15 \text{ cm}$$

$$\text{Breadth of the rectangle} = 15 \text{ cm}$$

$$\text{Radius of the cylinder} = 2 * \text{Breadth of the rectangle} = 2 * 15 = 30 \text{ cm}$$

$$\text{Area of a square} = \frac{1}{2} * d^2 \quad (d - \text{diagonal of the square})$$

$$= \frac{1}{2} * (20\sqrt{2})^2$$

$$= 400 \text{ cm}^2$$

$$\text{Side of the square} = \sqrt{400} = 20 \text{ cm}$$

$$\text{Height of the cylinder} = 20 \text{ cm}$$

$$\text{Volume of the cylinder} = \frac{22}{7} * 30 * 30 * 20 = 56571 \text{ cm}^3$$

**38. Ans: D**

$$1 \text{ man 1 day work} = \frac{1}{(12 * 15)} = \frac{1}{180} \quad 1 \text{ woman 1 day} = \frac{1}{(8 * 25)} = \frac{1}{200}$$

$$4 \text{ women and 6 men five days work}$$

$$= \frac{(4 * 5)}{200} + \frac{(6 * 5)}{180}$$

$$= \frac{20}{200} + \frac{30}{180} = \frac{1}{10} + \frac{1}{6}$$

$$= \frac{(3 + 5)}{30} = \frac{4}{15}$$

$$\text{Remaining} = 1 - \frac{4}{15} = \frac{11}{15}$$

$$\text{Remaining work completed by 12 women in}$$

$$= \frac{11}{15} * \frac{200}{12}$$

$$= 12 \frac{2}{9} \text{ days}$$

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**39. Ans: A**

**Sol:**

total food = 20X

if 10 more students added, the food needed, = 15 (X+10)

$$20X = 15(x+10)$$

$$20X - 15X = 150$$

$$5X = 150$$

$$X = 30$$

$$\text{Available food} = 30 * 20 = 600.$$

**40. Ans: B**

**Sol:**

$$\text{Total Work} = 1/12 + 1/18 - 1/36$$

$$= (3+2-1) / 36 = 1/9 = 9 \text{ hours}$$

**41. Ans: C**

**Sol:**

$$\text{perimeter of rectangle} = 2(l+b)$$

$$60 = 2(1.5b+b)$$

$$30 = 2.5b = \text{breath} = 12\text{m}$$

$$\text{length of rectangle} = 1.5 * 12 = 18$$

$$\text{Diameter of circle} = 3/5(18+12) = 18\text{m}$$

$$\text{Area of circle} = 22/7 * (18/2) * (18/2) = 254.5 \text{ m}^2.$$

**42. Ans: C**

**Sol:**

$$\text{Sum of present age of Harish and nithish} = 24 * 2 + 6 = 54$$

$$\text{Present Age of Kajol} = 84 - 54 = 30 \text{ years}$$

$$\text{Present Age of Harish} = (54/9) * 5 = 30 \text{ years}$$

$$\text{Sum ages of kajol and Harish, 5 years ago} = 25 + 25 = 50 \text{ years.}$$

**43. Ans: B**

**Sol:**

$$A : B : C = (25000 * 6 + 20000 * 6) : (35000 * 6) : (40000 * 3)$$

$$= 270000 : 210000 : 120000 = 27 : 21 : 12 = 9 : 7 : 4$$

$$\text{Profit earned by B} = (7500/20) * 7 = \text{RS. } 2625$$

**44. Ans: A**

**Sol:**

$$\text{total face card} = 12, \text{ in that 6 is red and 6 is black} = 6C_2 + (6C_1 * 6C_1) =$$

$$= 15 + 36 = 51$$

$$\text{Total probability} = 52C_2 = 26 * 51$$

$$\text{Possible probability} = 51 / 26 * 51 = 1/26.$$

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**45. Ans: D**

**Sol:**

Let us assume the original c.p of an article = X

Selling Price =  $X + (30/100)X = 1.3X$

Successive discount =  $1.3X * (90/100) * (85/100) = 0.9945 X$

$0.9945X = 1989$

$X = 2000$

Selling price =  $115/100 * c.p = 115/100 * 2000 = 2300$ .

**46. Ans: A**

**Sol:**

A = 12 days; B = 20 days

Total Work = 60w

one day work

A = 5 w/d

B = 3 w/d

total one day work = 8 w/d

5 days =  $8 * 5 = 40w$

Remaining Work = 20w

$20w = 5d$

4 works = 1 day

$60w = ?$

c = 15 days

Total work can be done by all together

in (total one day work) =  $5 + 3 + 4 = 12$  work/ days

total days taken =  $60/12 = 5$  days.

**47. Ans: B**

**Sol:**

Let the length of ground 2 is X

Ground 1 =  $3/5 X$

speed of B to A =  $3x/5 / 36 : x/7/90 = 3x/180 : x/90 = x/60 : x/90$

$= 90:60 = 3:2$

**48. Ans :B**

**sol:**

total number of possibilities =  $2^6 = 64$

Number of tails and head can be taken as (6,0), (5,1), (4,2) (3,3) respectively

$N(E) = {}^6C_6 + {}^6C_5 + {}^6C_4 + {}^6C_3 = 1 + 6 + 15 + 20 = 42$

$P(E) = 42/64 = 21/32$

**49. Ans: C**

**Sol:**

difference in interest =  $1050 - 1000 = 25$

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interest in SI for one year =  $1000/2 = 500$

Interest percentage rate =  $500/25 = 20\%$

$1500 = (2*20*x) / 100$

X= Rs.3750

**50.Ans: B**

**sol:**

remaining milk = 120 liters

milk: Water = 5: 3 = 75:45

After adding 40 liters of pure milk = 115:45 = 23:9

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