

## Arithmetic Word Problems Practice Set PDF for IBPS RRB PO & Clerk Prelims 2020

**Q1. A 180 meters long train running at a speed of 90km/hr passed a 240 meters long platform in T seconds. If train passed a tunnel in  $(7.2 + T)$  sec then find the length of tunnel?**

- (a) 350 meters
- (b) 420 meters
- (c) 480 meters
- (d) 300 meters
- (e) 260 meters

**Q2. P and Q when coming from their homes towards each other meet at a point X daily at 5:00 PM. Speed of P and Q is 40 km/hr and 30 km/hr respectively. One day Q got late therefore they met at 5:30 PM. Find by how long Q got late (in minutes) if they met at point X.**

- (a) 60
- (b) 40
- (c) 70
- (d) 75
- (e) none of these

**Q3. A can do a piece of work in 30 days. He works at it for 10 days and then B finishes it in 40 days. In what time can A and B together it?**

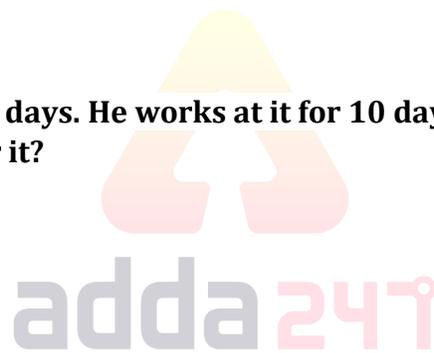
- (a) 20 days
- (b) 25 days
- (c) 30 days
- (d) 32 days
- (e) 27 days

**Q4. A work could be finished in 27 days by some men. it was finished 9 days earlier after 10 more men joined. The number of men employed was?**

- (a) 20
- (b) 22
- (c) 24
- (d) 26
- (e) 18

**Q5. A can do a piece of work in 30 days and B can do in 40 days. They began the work together but 10 days before the completion of the work A leaves . The work was completed in ?**

- (a) 20 days
- (b) 22 days
- (c)  $160/7$  days
- (d)  $170/7$  days
- (e) 25 days



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**Q6. By walking at a speed  $66\frac{2}{3}\%$  more than his usual speed, a man reaches his office 20 minutes earlier. Find the usual time taken by him to reach the office.**

- (a) 45 minutes
- (b) 50 minutes
- (c) 60 minutes
- (d) 75 minutes
- (e) 90 minutes

**Q7. Manish jogs 12 km at the speed of 6 km/h. At what speed should he travel during next  $1\frac{1}{2}$  hours to have an average speed of 9 km/h for the entire journey?**

- (a) 10 km/h
- (b) 11 km/h
- (c) 12 km/h
- (d) 13 km/h
- (e) 14 km/h

**Q8. A train crosses a pole and a bridge of length 450 meter in 12 seconds and 27 seconds respectively. Find the speed of the train.**

- (a) 90 kmph
- (b) 108 kmph
- (c) 72 kmph
- (d) 135 kmph
- (e) 120 kmph

**Q9. A boat against the current goes at 4 km per hour and in the direction of the current at 8 km per hour. The boat in going to a place B from A in upward and downward direction takes 45 minutes. Find the distance between A and B.**

- (a) 2.5 km
- (b) 2.25 km
- (c) 3 km
- (d) 2 km
- (e) 3.5 km

**Q10. A person can row  $7\frac{1}{2}$  km an hour in still water. He finds that it takes twice the time to row upstream than the time to row downstream. The speed of the stream is**

- (a) 2 km/hour
- (b) 2.5 km/hour
- (c) 3 km/hour
- (d) 4 km/hour
- (e) 3.5 km/hour

**Q11. A box contains 5 green, 4 yellow and 3 white marbles. Three marbles are drawn at random. What is the probability that they all are not of the same colour ?**

- (a)  $\frac{3}{44}$
- (b)  $\frac{3}{55}$
- (c)  $\frac{52}{55}$
- (d)  $\frac{41}{44}$
- (e)  $\frac{4}{11}$

**Q12. A bag contains 510 oranges out of which  $\frac{70}{17}$  % oranges are spoiled by a naughty boy. Find the probability of getting a good orange from the bag.**

- (a)  $\frac{157}{170}$
- (b)  $\frac{161}{170}$
- (c)  $\frac{163}{170}$
- (d)  $\frac{3}{5}$
- (e)  $\frac{11}{17}$

**Q13. Find the number of rearrangements of the letters of the word BENEVOLENT that ends with L ?**

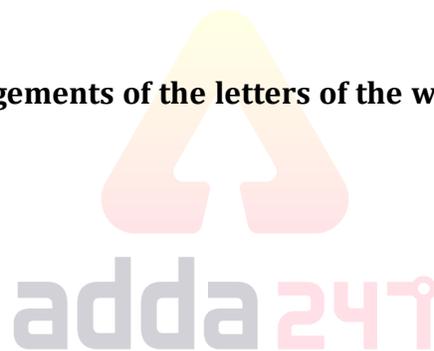
- (a) 30220
- (b) 30240
- (c) 302400
- (d) 60480
- (e) 33240

**Q14. In how many ways can letters of the word MADHUBANI be arranged so that word ends with I but does not start with M ?**

- (a) 17640
- (b) 8820
- (c) 4320
- (d) 12420
- (e) None of these

**Q15. A and B starts a business with an investment of Rs 35000 and Rs 42000 respectively. After 4 months, A invests 20% more while B withdraws 20% of their initial investment. If at the end of the year difference between their profit is Rs 1960, then find profit share of A.**

- (a) Rs 21840
- (b) Rs 27480
- (c) Rs 23800
- (d) Rs 28300
- (e) Rs 45640



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**Q16. Sanjay and Deepak invest in the ratio of 5 : 4. After 6 months, Praveen also invest equal to investment of Deepak. If at the end of the year total profit is Rs 2420, then find the total profit of Deepak and Praveen together.**

- (a) Rs 1320
- (b) Rs 1580
- (c) Rs 1760
- (d) Rs 1110
- (e) None of these

**Q17. A pigeon gets 300 grams as daily diet having mixture of X and Y. IF X has 10% protein and Y has 15% protein and if pigeon gets daily 38 gm protein, find the quantity of X in mixture.**

- (a) 150 gm
- (b) 145 gm
- (c) 130 gm
- (d) 140 gm
- (e) None of these

**Q18. One year ago, the ratio of the ages of Sarika and Gaurav was 3:4 respectively. One year hence the ratio of their ages will be 10:13 respectively. What is Sarika present age?**

- (a) 18 years
- (b) 20 years
- (c) 26 years
- (d) Cannot be determined
- (e) None of these



**Q19. In one litre of mixture of alcohol and water, water is 30%. The amount of alcohol that must be added to the mixture, so that the part of water in the mixture becomes 15%, is**

- (a) 1000 mL
- (b) 700 mL
- (c) 300 mL
- (d) 900 mL
- (e) 1200 mL

**Q20. The respective ratio between the Minakshi's age after 3 years and Abhay's age 3 years ago is 10 : 9 and the respective ratio between the Minakshi's age 3 years ago and Abhay's age after 3 years is 17 : 21. What is Minakshi's present age ? (in years).**

- (a) 39
- (b) 35
- (c) 43
- (d) 41
- (e) 37

**Q21.** There are three positive numbers,  $\frac{1}{3}$ rd of average of all the three numbers is 8 less than the value of the highest number. Average of lowest and the second lowest number is 8. Which is the highest number?

- (a) 11
- (b) 14
- (c) 10
- (d) 9
- (e) 13

**Q22.** A father's age is four times as much as the sum of the ages of his three children but 6 years hence his age will be only double the sum of their ages. Find the present age of the father.

- (a) 30 years
- (b) 40 years
- (c) 60 years
- (d) 45 years
- (e) 55 years

**Q23.** In an election between two candidates, the candidate getting  $\frac{3}{5}$ th of the votes polled, is elected by a majority of 14000 votes. The number of votes got by the winning candidate is

- (a) 28000
- (b) 32000
- (c) 42000
- (d) 46000
- (e) 44000

**Q24.** The sum of 8 consecutive odd numbers is 656. Also average of four consecutive even numbers is 87. What is the sum of the smallest odd number and second largest even number ?

- (a) 165
- (b) 175
- (c) 163
- (d) Can't be determined
- (e) None of these

**Q25.** Two numbers are such that if the first is subtracted from six times the second, their difference becomes 71, and if the second be added to 7 times the first, their sum becomes 62. The two numbers are:

- (a) 19, 7
- (b) 15, 7
- (c) 7, 13
- (d) 17, 3
- (e) 13, 5

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**Q26. A sell a scooter priced Rs. 36,000. He gives a discount of 8% on the first Rs. 20,000 and 5% on the next Rs. 10,000. How much discount can he afford on the remaining Rs. 6,000 if he is to get as much as when 7% discount is allowed on the total?**

- (a) 5%
- (b) 6%
- (c) 7%
- (d) 8%
- (e) None of the above

**Q27. A shopkeeper sold an article for Rs 750 after giving 20% discount on the labeled price and made 40% profit on the cost price. What would have been the percentage profit, had he not given the discount?(approx)**

- (a) 77%
- (b) 85%
- (c) 60%
- (d) 70%
- (e) 75%

**Q28. The compound interest on Rs. 50,000 at 9% per annum is Rs. 9405. The period (in years) is:**

- (a) 3 years
- (b) 4 years
- (c) 2 years
- (d) 2.5 years
- (e) 3.5 years

**Q29. A papaya tree was planted 3 years ago. It increases at the rate of 9.09% every year. If at present, the height of the tree is 1728 cm, what was its height when the tree was planted?**

- (a) 1300 cm
- (b) 1400 cm
- (c) 1377 cm
- (d) 1433 cm
- (e) 1331 cm

**Q30. A can do a piece of work in 42 days. Whereas B is 50/3% more efficient than that of A . find out in how many days B alone can complete same work.**

- (a) 32 days
- (b) 33 days
- (c) 34 days
- (d) 36 days
- (e) 38 days

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