

Averages

Model 1: Basic Average

1. What is the average of the following set of numbers?

302, 152, 132, 122, 112

- 1) 184
- 2) 165
- 3) 152
- 4) 176
- 5) None of these

2. Find the average of the following sets of scores.

198, 309, 256, 488, 145, 326, 427

- 1) 307
- 2) 10132
- 3) 11320
- 4) 11230
- 5) None of these

3. If 25a + 25b = 125, then what is the average of a and b?

- 1) 4.6
- 2) 2.5
- 3) 4.5
- 4) 3.4
- 5) None of these

4. Kamlesh bought 65 books for ₹ 1050 from one shop and 50 books for ₹ 1020 from another.



What is the average price he paid per book?

- 1) ₹ 36.40
- 2) ₹ 18.20
- 3) ₹ 24
- 4) ₹ 18
- 5) None of these

5. Sachin made 1000 runs in 20 matches. If he made 0 runs in one match, find the average runs of other matches.

- 1) 51.63
- 2) 52.53
- 3) 52.73
- 4) 52.63
- 5) 52.33

6. The average age of A, B and C is 26 years. If the average age of A and C is 29 years, what is the age of B in a year?

- 1) 26
- 2) 20
- 3) 29
- 4) 23
- 5) None of these



7.	A cricketer so	cored 180	runs in th	e first test	and 258	runs in	the secon	nd. How ma	ny runs
	should he sco	ore in the	third test	so that his	average	score in	the thre	e tests woul	d be 230
	runs?								

- 1) 219
- 2) 242
- 3) 334
- 4) 356
- 5) None of these
- 8. The average weight of 10 boys is more than the average weight of 15 girls by 5 kg. If the total weight of the 10 boys is 550 kg, what is the average of the 10 boys and 15 girls together?
 - 1) 52 kg
- 2) 52.5 kg
- 3) 53 kg
- 4) 43.5 kg
- 5) None of these
- 9. The average of 6 numbers is 8. What is the 7th number so that average becomes 10?
 - 1) 22
- 2) 18
- 3) 21
- 4) 20
- 5) None of these
- 10. The average of 5 positive integers is 436. The average of the first two numbers is 344 and the average of the last two numbers is 554. What is the third number?
 - 1) 482
- 2) 346
- 3) 556
- 4) 384
- 5) None of these
- 11. The sum of 5 numbers is 924, the average of the first two numbers is 201.5 and the average of the last two numbers is 196. What is the third number?
 - 1) 133

- 2) 129
- 3) 122

- 4) Cannot be determined
- 5) None of these
- 12. The sum of 5 numbers is 555. The average of the first two numbers is 75 and the third number is 115. What is the average of the last two numbers?
 - 1) 145
- 2) 290
- 3) 265
- 4) 150
- 5) None of these



3. The average tem	perature of fi	rst 3 days is 27	degrees and o	of the next 3 days is 29 degrees. If							
the average of th	e whole week	is 28.5 degree	s, what is the t	emperature of the last day?							
1) 31.5	2) 10.5	3) 21	4) 42	5) None of these							
4. The average of 3	5 numbers is	306.4. The av	erage of the f	irst two numbers is 431 and the							
average of the last two numbers is 214.5. What is the third number?											
1) 108		2) 5	2	3) 321							
4) Cannot be dete	ermined	5) N	one of these								
Model 2: Weighte	d Average										
5. In a class, there are 32 boys and 28 girls. The average age of the boys in the class is 14 year											
and the average age of the girls in the class is 13 years. What is the average age of the whol											
class? (Rounded	off to two dig	gits after decim	al)								
1) 13.50	2) 13.53	3) 12.51	4) 13.42	5) None of these							
6. In a certain scho	ol, there are 6	0 boys of age	12 each, 40 of a	ge 13 each, 50 of age 14 each and							
50 of age 15 each	. What is the	average age of	all the boys of	the school?							
1) 13.50	2) 133.1	3) 13.45	4) 14	5) None of these							
7. The average age	of 20 studen	its of a section	is 12 years. T	he average age of 25 students of							
another section is	s.12 years. Wl	nat is the avera	ge age of both	the sections combined together?							
1) 11		2) 1	1.5	3) 11.75							
4) Cannot be dete	ermined	Ione of these	e of these								
	the average of the 1) 31.5 4. The average of average of the last 1) 108 4) Cannot be determined and the average class? (Rounded 1) 13.50 6. In a certain school 50 of age 15 each 1) 13.50 7. The average age another section is 1) 11	the average of the whole week 1) 31.5 2) 10.5 4. The average of 5 numbers is average of the last two number 1) 108 4) Cannot be determined Model 2: Weighted Average 5. In a class, there are 32 boys are and the average age of the girclass? (Rounded off to two dignormal of the second of the sec	the average of the whole week is 28.5 degree 1) 31.5 2) 10.5 3) 21 4. The average of 5 numbers is 306.4. The average of the last two numbers is 214.5. Wh 1) 108 2) 52 4) Cannot be determined 5) No Model 2: Weighted Average 5. In a class, there are 32 boys and 28 girls. The and the average age of the girls in the class is class? (Rounded off to two digits after decim 1) 13.50 2) 13.53 3) 12.51 6. In a certain school, there are 60 boys of age 15 of age 15 each. What is the average age of 1) 13.50 2) 133.1 3) 13.45 7. The average age of 20 students of a section another section is.12 years. What is the average 1) 11 2) 15	4. The average of 5 numbers is 306.4. The average of the faverage of the last two numbers is 214.5. What is the third in 1) 108							



Model 3: Average of Remaining Group

(Capgemini 2016,AMCAT 2016)

- 18. The average age of a class of 65 boys was 14 years, the average age of 20 of them was 14 years, and that of another 15 was 12 years. Find the average age of the remaining boys?
 - 1) 16 years
- 2) 13 years
- 3) 17 years
- 4) 15 years
- 5) None of these
- 19. The average monthly income of a family of four earning members was ₹ 15,130. One of the daughters in the family got married and left home, so the average monthly income of the family came down to ₹ 14,660. What is the monthly income of the married daughter?
 - 1) ₹ 15.350

2) ₹ 12,000

3) ₹ 16,540

- 4) Cannot be determined
- 5) None of these
- 20. The total ages of the class of 75 girls is 1050 years, the average age of 25 of them is 12 years and that of another 25 is 16 years. Find the average age of the remaining girls?
 - 1) 12 years
- 2) 13 years
- 3) 14 years
- 4) 15 years
- 5) None of these

Model 4: Average When a Member Is Excluded/Included From/into a Group

(Tech Mahindra 2016, Accenture 2015)

- 21. The average age of 39 students and a teacher of a Class are 11 years. If the age of teacher is excluded the average age of the class is reduced by 1. What is the age of teacher?
 - 1) 49 years
- 2) 39 years
- 3) 50 years
- 4) 52 years
- 5) None of these
- 22. The average weight of 11 students is 30 kg. If the average weight increases by 0.5 kg when Suresh, one of the students leaves the group, what is the Suresh's weight?
 - 1) 28
- 2) 25
- 3) 40
- 4) 35
- 5) None of these



23. The average age of 31 students is 11.5 years. If teacher's age is included average age is increased by 1. What is the teacher's age?

1) 36

2) 35.5

3) 37

4) 43.5

5) None of these

Model 5: Discrepancy in Average Due to a Wrong Entry (Infosys 2016)

24. The average temperature for a week is noted as 32°C. But later it was realized that Friday temperature reading was taken as 30°C instead of 16°C. What is the true average temperature for the week?

- 1) 15
- 2) 30
- 3) 10
- 4) 20
- 5) None of these

25. The average weight of a group of 53 girls was calculated as 58 kg. It was later discovered that the weight of one of the girls was read as 65 kg, whereas her actual weight was 45 kg. What is the actual average weight of the group of the 53 girls? (rounded off to two digits after decimal)

- 1) 58.62
- 2) 58.37
- 3) 57.37
- 4) 57.62
- 5) None of these

26. The average weight of a group of 50 girls was calculated as 58 kg. It was later discovered that the weight of one of the girls was read as 45 kg, whereas her actual weight was 65 kg. What is the actual average weight of the group of the 50 girls? (rounded off to two digits after decimal)

- 1) 58.6
- 2) 57.6
- 3) 57.4
- 4) 58.4
- 5) None of these



Model 6: Average of Consecutive Numbers (TCS 2016)

27. The sum of 3 consecutive even numbers is 44 more than the average of these numbers. What will be the highest of these numbers?

1) 16

2) 18

3) 24

- 4) Cannot be determined
- 5) None of these

28. If the average of 11 consecutive even numbers is 98, what is the highest number?



- 1) 72
- 2) 84
- 3) 96
- 4) 108
- 5) None of these

29. A, B, C and D are four consecutive numbers. If the sum of A and D is 103 what is the product of B and C?

- 1) 2652
- 2) 2562
- 3) 2970
- 4) 2550
- 5) None of these

30. A, B, C and D are four consecutive even numbers respectively and their average is 65. What is the product of A and D?

- \odot
- 1) 3968
- 2) 4216
- 3) 1092
- 4) 4352
- 5) None of these

31. The average of 5 consecutive odd numbers A, B, C, D and E is 47. What is the product of A and D?

- 1) 2107
- 2) 1935
- 3) 2021
- 4) 2193
- 5) None of these

32. The sum of 5 consecutive odd numbers is 575. What will be the sum of the next set of 5 consecutive odd numbers?

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- 1) 625
- 2) 580
- 3) 600
- 4) 650
- 5) None of these



- 33. The sum of 5 consecutive even numbers is 200. What will be the sum of the next set of 5 consecutive even numbers?
 - 1) 240
- 2) 250
- 3) 300
- 4) 225
- 5) None of these
- 34. The average of four positive integers is 59. The highest integer is 83 and the lowest integer is 29. The difference between the remaining two integers is 28. Which of the following integers is the higher of the remaining two integers?
 - 1) 34

2) 76

3) 39

- 4) Cannot be determined
- 5) None of these
- 35. A boy has to find the average of 25 positive integers. Each integer contains two digits. By mistake, the boy interchanges the digits of one number and finds the average 2.88 less than the real average. What is the difference between the two digits of that number?
 - 1)6
- 2) 8
- 3) 4
- 4) 7
- 5) None of these

Answers

1 - 5	2 - 1	3 - 2	4 - 4	5 - 4
6 - 2	7 - 5	8 - 1	9 - 1	10 - 4
11 - 2	12 - 1	13 - 1	14 - 5	15 - 2
16 - 3	17 - 5	18 - 4	19 - 3	20 - 3
21 - 3	22 - 2	23 - 4	24 - 2	25 - 4
26 - 4	27 - 3	28 - 4	29 - 1	30 - 2
31 - 1	32 - 1	33 - 2	34 - 2	35 - 2

Practice Questions

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	•	O		(35) per 1	
1.	The average of	50 numbers is	s 38. If two nu	umbers namely 45 and 55 are discarded, the	
	average of the re	emaining numb	pers is		
	a) 35	b) 32.5	c) 37.5	d) 36	
2.	The average ago	e of the jury o	of 5 is 40. If a	member aged 35 resigns and a managed 25	
	becomes a meml	ber, then the av	verage age of th	ne new jury is_	
	a) 30	b) 38	c) 40	d) 42	
3.	The average of n	nine numbers is	s 50. The averag	ge of the first five numbers is 54 and that of the	
	last three number	ers is 52. Then t	the sixth numbe	er is	
	a) 30	b) 34	c) 24	d) 44	
4.	The average of 2	20 numbers is	15 and the ave	rage of first 5 is 12. The average of the rest is-	
	a) 16	b) 15	c) 14	d) 13	
5.	Out of 4 number	ers, whose ave	rage is 60, the	first one is one-fourth of the sum of the least	
	three. The first n	umber is			
	a) 15	b) 45	c) 48	d) 60	
6.	The average of 2	25 observations	s is 13. It was la	ater found that an observation 73 was wrongly	
	entered as 48. Th	ne new average	eis		
	a) 12.6	b) 14	c) 15	d) 13.8	
7.	Among three nu	ımbers, the firs	t is twice the se	econd and thrice the third. If the average of the	
	O			veen the first and the third number is	
	a) 54	b) 28	c) 39.5	d) 41.5	



- 8. The mean of 50 numbers is 30. Later it was discovered that two entries were wrongly entered as 82 and 13 instead of 28 and 31. Find the correct mean.
 - a) 36.12
- b) 30.66
- c) 29.28
- d) 38.21
- 9. The average of three consecutive odd numbers is 12 more than one third of the first of these numbers. What is the last of the three numbers?
 - a) 15
- b) 17
- c) 19
- d) Data inadequate
- 10. The average weight of a group of 20 boys was calculated to be 89.4 kg and it was later discovered that one weight was misread as 78 kg instead of 87 kg. The correct average weight is
 - a) 88.95 kg
- b) 89.25 kg
- c) 89.55 kg
- d) 89.85 kg
- 11. In a family, the average age of a father and a mother is 35 years. The average age of the father, mother and their only son is 27 years. What is the age of the son?
 - a) 12 years
- b) 11 years
- c) 10.5 years d) 10 years

Answers

1 - c	2 - b	3 - c	4 - a	5 - c	6 - b	7 - a	8 - c	9 - c	10 - d
11 - b									