Problems on average speed

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Vedic Mathematics

1) A man completes 30 km of a journey at the speed of 6 km/hr and the remaining 40 km of the journey in 5 hours. His average speed for the whole journey is

a) 8 km/hr b) 7.5 km/hr
c) 7 km/hr d) $6\frac{4}{11}$ km/hr

2) A man covers the journey from a station A to station B at a uniform speed of 36 km/hr and returns to A with a uniform speed of 45 km/hr. His average speed for the whole journey is :

a) 41 km/hr b) 42 km/hr
c) 40 km/hr d) 40.5 km/hr

3) A car travels from A to B at the rate of 40 km/h and returns from B to A at the rate of 60 km/ h. Its average speed during the whole journey is

a) 45 km/h b) 60 km/h
c) 48 km/h d) 50 km/h

4) When Alisha goes by car at 50 kmph, she reaches her office 5 minutes late. But when she takes her motorbike, she reaches 3 minutes early. If her office is 25 kms away, what is the approximate average speed at which she rides her motorbike ?

a) 58 kmph b) 52 kmph
c) 68 kmph d) 62 kmph

5) A train travels 500 m in first minute. In the next 4 minutes, it travels in each minute 125 m more than that in the previous minute. The average speed per hour of the train during those 5 minutes will be

a) 50 km/hr b) 55 km/hr
c) 30 km/hr d) 45 km/hr

6) Gautam goes to office at a speed of 12 kmph and returns home at 10 kmph. His average speed is :

a) 10.9 kmph b) 12.5 kmph
c) 11 kmph d) 22 kmph

7) With an average speed of 40 km/ hr , a train reaches its destination in time. If it goes with an average speed of 35 km/hr, it is late by 15 minutes. The total journey is

a) 70 km b) 80 km
c) 30 km d) 40 km

8) A train travelled at a speed of 35 km/hr for the first 10 minutes and at a speed of 20 km/hr for the next 5 minutes. The average speed of the train for the total 15 minutes is

a) 31 km/hr b) 29 km/hr
c) 30 km/hr d) 23 km/hr

9) A man goes from A to B at a uniform speed of 12 kmph and returns with a uniform speed of 4 kmph His average speed (in kmph) for the whole journey is :

a) 6 b) 4.5
c) 8 d) 7.5

10) A car completed a journey of 400 km in 12 $\frac{1}{2}$ hrs. The first $\frac{3}{4}$ th of the journey was done at 30 km/hr. Calculate the speed for the rest of the journey.

a) 40 km/hr b) 30 km/hr
c) 45 km/hr d) 25 km/hr

11) A man goes from a place A to B at a speed of 12 km/hr and returns from B to A at a speed of 18 km/hr. The average speed for the whole journey is

a) $15\frac{1}{2}$ km/hr b) 16 km/hr
c) $14\frac{2}{5}$ km/hr d) 15 km/hr

12) A train moves with a speed of 30 kmph for 12 minutes and for next 8 minutes at a speed of 45 kmph. Find the average speed of the train:

a) 48 kmph b) 30 kmph
c) 37.5 kmph d) 36 kmph

13) A and B are 20 km apart. A can walk at an average speed of 4 km/ hour and B at 6 km/hr. If they start

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walking towards each other at 7 a.m., when they will meet ?

a) 9.00 a.m. b) 10.00 a.m.
c) 8.00 a.m. d) 8.30 a.m.

14) A bus travels 150 km in 3 hours and then travels next 2 hours at 60 km/hr. Then the average speed of the bus will be

a) 50 km/hr. b) 60 km/hr.
c) 55 km/hr. d) 54 km/hr.

15) A bus covers four successive 3 km stretches at speed of 10 km/ hr, 20 km/hr, 30 km/hr and 60 km/hr respectively. Its average speed over this distance is

a) 20 km/hr b) 10 km/hr
c) 30 km/hr d) 25 km/hr

16) On a journey across Kolkata, a taxi averages 50 km per hour for 50% of the distance, 40 km per hour for 40% of it and 20 km per hour for the remaining. The average speed (in km/hour) for the whole journey is :

a) 35 b) 45
c) 42 d) 40

17) P travels for 6 hours at the rate of 5 km/ hour and for 3 hours at the rate of 6 km/ hour. The average speed of the journey in km/ hour is

a) $1\frac{2}{9}$ b) $2\frac{2}{5}$
c) $3\frac{1}{5}$ d) $5\frac{1}{3}$

18) The speed of a train going from Nagpur to Allahabad is 100 kmph while its speed is 150 kmph when coming back from Allahabad to Nagpur. Then the average speed during the whole journey is :

a) 140 kmph b) 135 kmph
c) 120 kmph d) 125 kmph

19) A train covers a distance of 3584 km in 2 days 8 hours. If it covers 1440 km on the first day and 1608 km on the second day, by how much does the average speed of the train for the remaining part of the journey differ from that for the entire journey ?

a) 4 km/hour more b) 5 km/hour less
c) 3 km/hour more d) 3 km/hour less

20) A man walks from his house at an average speed of 5 km per hour and reaches his office 6 minutes late. If he walks at an average speed of 6 km/h he reaches 2 minutes early. The distance of the office from his house is

a) 12 km b) 4 km
c) 6 km d) 9 km

21) One third of a certain journey is covered at the rate of 25 km/ hour, one-fourth at the rate of 30 km/hour and the rest at 50 km/ hour. The average speed for the whole journey is

a) 30 km/hour b) $37\frac{1}{12}$ km/hour
c) 35 km/hour d) $33\frac{1}{3}$ km/hour

22) At an average of 80 km/hr Shatabdi Express reaches Ranchi from Kolkata in 7 hrs. The distance between Kolkata and Ranchi is

a) 560 m. b) 650 m.
c) 560 km. d) 506 km.

23) A train runs at an average speed of 75 km/hr. If the distance to be covered is 1050 kms, how long will the train take to cover it ?

a) 15 hrs b) 14 hrs
c) 13 hrs d) 12 hrs

24) A motorist travels to a place 150 km away at an average speed of 50 km/hr and returns at 30 km/ hr. His average speed for the whole journey in km/hr is

a) 35 b) 40
c) 37.5 d) 37

25) Durga walks 5 km from her home to school in 60 minutes, then bicycles back to home along the same

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route at 15 km per hour. Her sister Smriti makes the same round trip, but does so at half of Durga's average speed. How much time does Smriti spend on her round trip?

a) 160 minutes b) 80 minutes
c) 120 minutes d) 40 minutes

26) A person travels 600 km by train at 80km/hr, 800 km by ship at 40 km/hr 500 km by aeroplane at 400 km/hr and 100 km by car at 50km/hr. What is the average speed for the entire distance ?

a) $60\frac{5}{123}$ km/hr b) 62 km/hr
c) $65\frac{5}{123}$ km/hr d) 60 km/hr

27) To cover a distance of 216 km in 3.2 hours, what should be the average speed of the car in metre/second?

a) 37.5 metre/second
b) 18.75 metre/second
c) 67.5 metre/second
d) 33.75 metre/second

28) A train runs from Howrah to Bandel at an average speed of 20 km/ hr and returns at an average speed of 30 km/hr. The average speed (in km/hr) of the train in the whole journey is

a) 24 b) 25
c) 20 d) 22.5

29) A man travels 50 km at speed 25 km/h and next 40 km at 20 km/ h and there after travels 90 km at 15 km/h. His average speed is :

a) 20 kmph. b) 15 kmph.
c) 18 kmph. d) 25 kmph.

30) Gautam travels 160 kms at 32 kmph and returns at 40 kmph. Then his average speed is

a) 36 kmph b) 35.55 kmph
c) 72 kmph d) 71.11 kmph

31) A man covers a total distance of 100 km on bicycle. For the first 2 hours, the speed was 20 km/ hr and for the rest of the journey, it came down to 10 km/hr. The average speed will be

a) $15\frac{1}{8}$ km/hr b) 20 km/hr
c) $12\frac{1}{2}$ km/hr d) 13 km/hr

32) A boy rides his bicycle 10km at an average speed of 12 km/hr and again travels 12 km at an average speed of 10 km/hr. His average speed for the entire trip is approximately :

a) 11.0 km/hr b) 12.2 km/hr
c) 10.4 km/hr d) 10.8 km/hr

33) A man covers half of his journey at 6km/hr and the remaining half at 3km/hr. His average speed is

a) 4 km/hr b) 3 km/hr
c) 9 km/hr d) 4.5 km/hr

34) A person went from A to B at an average speed of x km/hr and returned from B to A at an average speed of y km/hr. What was his average speed during the total journey ?

a) $\frac{2}{x+y}$ b) $\frac{1}{x}+\frac{1}{y}$
c) $\frac{x+y}{2xy}$ d) $\frac{2xy}{x+y}$

35) A man goes from Mysore to Bangalore at a uniform speed of 40 km/hr and comes back to Mysore at a uniform speed of 60 km/hr. His average speed for the whole journey is

a) 54 km/hr b) 55 km/hr
c) 48 km/hr d) 50 km/hr

36) A train goes from Ballygunge to Sealdah at an average speed of 20 km/hour and comes back at an average speed of 30 km/hour. The average speed of the train for the whole journey is

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a) 25 km/hr b) 24 km/hr
c) 27 km/hr d) 26 km/hr

37) A constant distance from Chennai to Bangalore is covered by Express train at 100 km/hr. If it returns to the same distance at 80 km/hr, then the average speed during the whole journey is
a) 88.98 km/hr b) 88.89 km/hr
c) 90.20 km/hr d) 88.78 km/hr

38) A man goes to a place on bicycle at speed of 16 km/hr and comes back at lower speed. If the average speed is 6.4 km/hr in total journey, then the return speed (in km/hr) is :
a) 6 b) 4
c) 10 d) 8

39) A man travels a distance of 24 km at 6 kmph. Another distance of 24 km at 8 kmph and a third distance of 24 km at 12 kmph. His average speed for the whole journey (in kmph) is
a) $2\frac{10}{13}$ b) 9
c) $8\frac{2}{3}$ d) 8

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