EduSahara™ Learning Center Assignment

Grade : Class VIII, SSC
Chapter : Direct and Inverse Proportions
Name : Computation Problems
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1. If the speed of a vehicle is 25.19 kmph, how much distance will it travel in 11.05 hrs?

(i) 278.35 km (ii) 276.35 km (iii) 280.35 km (iv) 279.35 km (v) 277.35 km

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2. If the speed of a vehicle is 17.19 m/sec, how much distance will it travel in 26.63 sec?

(i) 457.77 mt (ii) 458.77 mt (iii) 459.77 mt (iv) 455.77 mt (v) 456.77 mt

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3. If a vehicle travels 330.88 km in 24.24 hrs, what is the speed of the vehicle?

(i) 11.65 kmph (ii) 13.65 kmph (iii) 14.65 kmph (iv) 15.65 kmph (v) 12.65 kmph

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4. If a vehicle travels 383.96 mt in 39.14 sec, what is the speed of the vehicle?

(i) 7.81 m/sec (ii) 11.81 m/sec (iii) 10.81 m/sec (iv) 9.81 m/sec (v) 8.81 m/sec

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5. If the speed of a vehicle is 12.13 kmph, how much time will it take to travel 363.29 km?

(i) 30.95 hrs (ii) 29.95 hrs (iii) 27.95 hrs (iv) 31.95 hrs (v) 28.95 hrs

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6. If the speed of a vehicle is 11.76 m/sec, how much time will it take to travel 484.51 mt?

(i) 40.20 sec (ii) 39.20 sec (iii) 41.20 sec (iv) 42.20 sec (v) 43.20 sec

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7. If a train travels 174.13 mt in 18.31 sec, how much distance it covers in 37.14 sec?

(i) 351.20 mt (ii) 352.20 mt (iii) 353.20 mt (iv) 355.20 mt (v) 354.20 mt

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8. If a train travels 360.57 mt in 42.52 sec, what time it takes to travel 494.80 mt?

(i) 60.35 sec (ii) 59.35 sec (iii) 58.35 sec (iv) 56.35 sec (v) 57.35 sec

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9. If a train covers a certain distance at a speed of 7.24 m/sec in 28.96 sec, what should be the speed to cover the same distance in 32.23 sec?

(i) 4.51 m/sec (ii) 6.51 m/sec (iii) 7.51 m/sec (iv) 8.51 m/sec (v) 5.51 m/sec

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10. A train covers a certain distance at a speed of 20.09 m/sec in 18.71 sec. If it travels at 12.24 m/sec, in what time it covers the same distance ?

(i) 29.71 sec (ii) 32.71 sec (iii) 28.71 sec (iv) 31.71 sec (v) 30.71 sec

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11. If a train travelling at 9.50 m/sec speed covers 385.22 mt distance in a certain time, at what speed should it travel to cover 383.20 mt distance in the same time ?

(i) 8.45 m/sec (ii) 7.45 m/sec (iii) 9.45 m/sec (iv) 11.45 m/sec (v) 10.45 m/sec

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12. If a train travelling at 9.58 m/sec speed covers 382.05 mt distance in a certain time, how much distance will it cover in the same time at speed 10.03 m/sec?

(i) 399.00 mt (ii) 400.00 mt (iii) 398.00 mt (iv) 402.00 mt (v) 401.00 mt

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13. A train travels some distance at a speed of 4.23 m/sec for 38.20 sec, some more distance at a speed of 11.89 m/sec for 41.25 sec and the remaining distance at a speed of 15.27 m/sec for 27.90 sec. What is the average speed of the train?

(i) 8.04 m/sec (ii) 9.04 m/sec (iii) 12.04 m/sec (iv) 10.04 m/sec (v) 11.04 m/sec

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14. A train travels some distance at a speed of 10.72 m/sec for 30.59 sec, some more distance at a speed of 5.88 m/sec for 17.82 sec and the remaining distance at a speed of 15.42 m/sec for 15.74 sec. What is the total distance covered?

(i) 677.41 mt (ii) 674.41 mt (iii) 673.41 mt (iv) 675.41 mt (v) 676.41 mt

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15. A train travels 159.23 mt distance at 7.84 m/sec, 493.22 mt distance at 24.91 m/sec and 246.00 mt distance at 6.76 m/sec. What is the average speed of the train?

(i) 12.74 m/sec (ii) 11.74 m/sec (iii) 13.74 m/sec (iv) 10.74 m/sec (v) 9.74 m/sec

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16. A train travels 268.24 mt distance at 13.92 m/sec, 219.79 mt distance at 7.72 m/sec and 379.71 mt distance at 15.71 m/sec. What is the total time travelled by the train?

(i) 72.91 sec (ii) 73.91 sec (iii) 69.91 sec (iv) 71.91 sec (v) 70.91 sec

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17. A train travels 488.13 mt distance for 13.70 sec, 115.03 mt distance for 12.81 sec and 138.35 mt distance for 14.86 sec. What is the average speed of the train?

(i) 15.92 m/sec (ii) 18.92 m/sec (iii) 16.92 m/sec (iv) 17.92 m/sec (v) 19.92 m/sec

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18. In how much time, a train of length 393.37 mt travelling at a speed of 19.43 m/sec will cross a platform of length 481.36 mt?

(i) 44.01 sec (ii) 43.01 sec (iii) 46.01 sec (iv) 45.01 sec (v) 47.01 sec

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19. In how much time, a train of length 100.63 mt travelling at a speed of 5.81 m/sec will cross a pole?

(i) 15.32 sec (ii) 19.32 sec (iii) 17.32 sec (iv) 16.32 sec (v) 18.32 sec

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20. A student walks from his house to school at 5.80 kmph and arrives 8.20 min. late. The next day he walks at 19.61 kmph and reaches the school 23.70 min. before time. What is the distance from his house to school?

(i) 4.38 km (ii) 2.38 km (iii) 6.38 km (iv) 5.38 km (v) 3.38 km

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21. A student walks from his house to school at 2.97 kmph and arrives 15.10 min. late. The next day he walks at 8.00 kmph and reaches the school 5.20 min. before time. At what speed must he travel to reach the school on time?

(i) 7.58 kmph (ii) 4.58 kmph (iii) 6.58 kmph (iv) 5.58 kmph (v) 3.58 kmph

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22. A train crosses a telegraph post in 15.42 sec and a bridge 578.41 mt long in 27.61 sec. What is the length of the train?

(i) 731.68 mt (ii) 732.68 mt (iii) 733.68 mt (iv) 730.68 mt (v) 729.68 mt

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23. A train crosses a telegraph post in 43.05 sec and a bridge 1434.69 mt long in 81.92 sec. What is the speed of the train?

(i) 35.91 m/sec (ii) 36.91 m/sec (iii) 34.91 m/sec (iv) 38.91 m/sec (v) 37.91 m/sec

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Assignment Key

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2) (i)
3) (ii)
4) (iv)
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21) (iv)
22) (i)
23) (ii)