

ARITHMETIC

Number System & LCM and HFC Worksheet

For students preparing for MAH-B.BCA/BBA/BMS/BBM CET 2024 for admission to BCA, BBA, BMS, BBM

- In a flight of 600 km, an aircraft was slowed down due to bad weather. Its average speed for the trip was reduced by 200 km/hr and the time of flight increased by 30 minutes. The duration of the flight is:
 - 1 hour
 - 2 hours
 - 3 hours
 - 4 hours
- A man complete a journey in 10 hours. He travels first half of the journey at the rate of 21 km/hr and second half at the rate of 24 km/hr. Find the total journey in km.
 - 220 km
 - 224 km
 - 230 km
 - 234 km
- What is the distance between Alankar's house and office, if he will reach office late by 20 minutes, traveling at 10 km/hr and will reach early by 15 minutes, traveling at 15 km/hr?
 - 14.5 km
 - 17.5 km
 - 16.5 km
 - 15 km
- Two cyclists do the same journey by travelling at 9 km/hr and 10 km/hr respectively. Find the distance travelled when one takes 32 minutes longer than the other.
 - 44 km
 - 48 km
 - 50 km
 - 46 km
- A car during its journey travels 30 minutes at a speed of 40 km/hr, another 45 minutes at a speed of 60 km/hr and 2 hours at a speed of 70 km/hr. Find its average speed (approximately).
 - 50 km/hr
 - 63 km/hr
 - 55.5 km/hr
 - 48 km/hr
- Find the time taken to cover the distance from Delhi to Agra, a distance of 360 km, by the Shatabdi express moving at 20 m/s.
 - 3 hours
 - 4 hours
 - 5 hours
 - 6 hours.
- Walking at $\frac{5}{7}$ th of his usual speed, Kapil reaches the college 6 min late. Find Kapil's usual time to reach college.
 - 15 min
 - 10 min
 - 5 min
 - 8 min
- Ram flew to Lanka in his Pushpak Vahan, at an average speed of 600 km/hr. On his way back along with Sita, because of the heavier baggage that he was carrying, his speed reduced to 400 km/hr. Find the average speed during the journey.
 - 520 km/hr
 - 440 km/hr
 - 480 km/hr
 - 560 km/hr

9. Amit travelled from A to B at an average speed of 80 km/h. He travelled the first 75% of the distance in two-third of the time and the rest at a constant speed of x km/h. The value of x is:

- A. 56
- B. 60
- C. 64
- D. 54

10. The speed of a car increases by 2km/h after every one hour. If the distance travelled in the first one hour was 35 km, what was the total distance travelled in 12 hours?

- A. 560 km
- B. 558 km
- C. 650 km
- D. 552 km



Answer Key

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|------|------|------|------|------|------|------|------|------|-------|
| 1. A | 2. B | 3. B | 4. B | 5. B | 6. C | 7. A | 8. C | 9. B | 10. D |
|------|------|------|------|------|------|------|------|------|-------|

