

Chapter 13

MULTIPLE CHOICE QUESTIONS

1. (d)
2. (c)
3. (a)
4. (b)
5. (c)
6. (a)
7. (d)
8. (a)
9. (b)

VERY SHORT ANSWER QUESTIONS

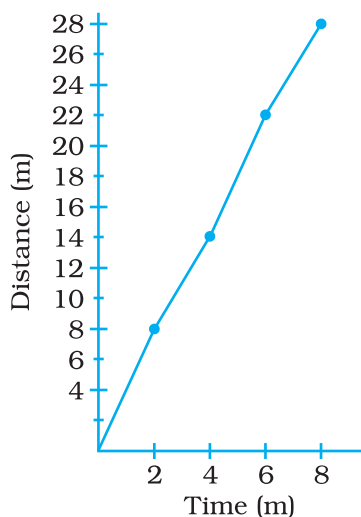
10. Non-uniform.
11. Their speed will not be same.
12. Boojho moves at a higher speed as he covers the same distance in a lesser time than Paheli.

SHORT ANSWER QUESTIONS

13.

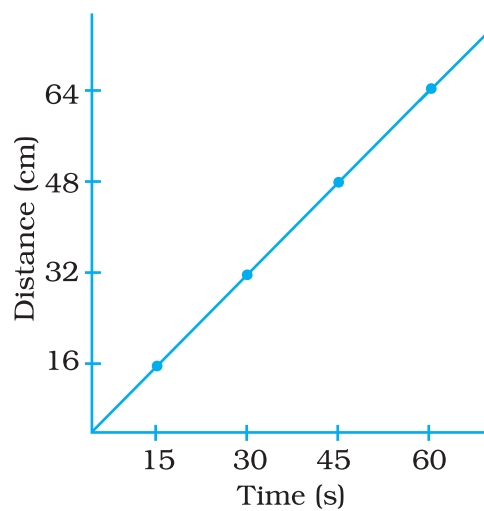
Distance (m)	0	4	8	12	16	20
Time (s)	0	2	4	6	8	10

14. 12 years 3 months
 $= 12 \times 365 + 3 \times 30 = 4470$ days
 $= 4470 \times 24 \times 60 \times 60 \text{ s} = 386208000 \text{ s}$
15. 10 km/s
16. Since the distance covered per unit time for the entire distance covered is not the same, the motion is non-uniform.



17.

Time (s)	x	15	30	45	60
Distance (cm)	y	16	32	48	64

**LONG ANSWER QUESTIONS**

18. (a) 8 m from the starting point
(b) 6 m
(c) 0.4 m/s
19. 12 km/h; Average speed 9 km/h
20. (a) Boojho is at rest, i.e. his speed is zero
(b) Non-uniform
(c) $\frac{75}{4} = 18.75$ m/minute