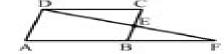
Hence, A < B

Solution 30: (b) AF = 2 AB

In parallelogram ABCD,

AB || DC

∠DCE = ∠EBF [Alternate interior angles]



In ADCE and ABFE, we have:

∠DCE = ∠EBF [Proved above]

∠DEC = ∠BEF [Vertically opposite angles]

BE = CE [Given]

i.e.,  $\Delta DCE \cong \Delta BFE$  [By ASA congruence rule]

 $\therefore DC = BF \qquad [CPCT]$ 

But DC= AB, as ABCD is a parallelogram.

 $\therefore DC = AB = BF \qquad ...(1)$ 

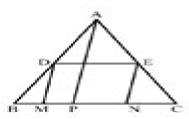
Now, AF = AB + BF

 $\Rightarrow$  AF = AB + AB = 2AB [From (1)]

Solution 31: (b) a parallelogram

Given: In  $\triangle$ ABC, M, N, D and E are the mid-points of BP, CP, AB and AC, respectively. In  $\triangle$ ABP,

· D and M are the mid-points of AB, and BP, respectively. [Given]



$$\therefore$$
 DM =  $\frac{1}{2}$  AP and DM ||AP ... (1)

[Mid - point theorem]

Again, in AACP,

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# **Table of Contents Rs Aagarwal Of Class 9**

- 1. Understanding the eBook Rs Aagarwal Of Class 9
  - The Rise of Digital Reading Rs Aagarwal Of Class 9
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Rs Aagarwal Of Class 9
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Rs Aagarwal Of Class 9
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Rs Aagarwal Of Class 9
  - Personalized Recommendations
  - Rs Aagarwal Of Class 9 User Reviews and Ratings
  - Rs Aagarwal Of Class 9 and Bestseller Lists
- 5. Accessing Rs Aagarwal Of Class 9 Free and Paid eBooks
  - Rs Aagarwal Of Class 9 Public Domain eBooks
  - Rs Aagarwal Of Class 9 eBook Subscription Services
  - Rs Aagarwal Of Class 9 Budget-Friendly Options
- 6. Navigating Rs Aagarwal Of Class 9 eBook Formats

- o ePub, PDF, MOBI, and More
- Rs Aagarwal Of Class 9 Compatibility with Devices
- Rs Aagarwal Of Class 9 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - o Adjustable Fonts and Text Sizes of Rs Aagarwal Of Class 9
  - Highlighting and Note-Taking Rs Aagarwal Of Class 9
  - Interactive Elements Rs Aagarwal Of Class 9
- 8. Staying Engaged with Rs Aagarwal Of Class 9
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Rs Aagarwal Of Class 9
- 9. Balancing eBooks and Physical Books Rs Aagarwal Of Class 9
  - Benefits of a Digital Library
  - o Creating a Diverse Reading Collection Rs Aagarwal Of Class 9
- 10. Overcoming Reading Challenges
  - $\circ\,$  Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Rs Aagarwal Of Class 9
  - Setting Reading Goals Rs Aagarwal Of Class 9
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Rs Aagarwal Of Class 9
  - Fact-Checking eBook Content of Rs Aagarwal Of Class 9
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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