ICSE Class 9 Maths Selina Solutions Chapter 12: Here are the Selina Solutions for the problems found in the ICSE Class 9 Maths Selina Solutions Chapter 12, Mid-Point and Its Converse. Students study the intercept theorem in detail as well as the issue of mid-point and its converse of a triangle in this chapter. By completing all of the questions in the Selina textbook, students can easily receive a perfect score on their exams.

The ICSE Class 9 Maths Selina Solutions Chapter 12 is quite simple to comprehend. All the exercise questions in the book are addressed in these solutions, which follow the ICSE or CISCE syllabus. This page contains the ICSE Class 9 Maths Selina Solutions Chapter 12 PDF, which can be viewed online or downloaded. To practice offline, students can now access and download the Selina Solutions for free.

ICSE Class 9 Maths Selina Solutions Chapter 12 Overview

ICSE Class 9 Maths Selina Solutions Chapter 12, "Mid Point and Its Converse," offer clear explanations and step-by-step solutions to understand the concept of midpoints in geometry. This chapter focuses on properties and theorems related to midpoints of line segments.

It covers topics such as the midpoint formula, properties of line segments divided by their midpoint, and the converse theorems associated with these properties. The solutions provided are structured to help students grasp the concepts effectively, with plenty of practice exercises to reinforce learning. Overall, ICSE Class 9 Maths Selina Solutions Chapter 12 for this chapter serves as a valuable resource for students aiming to strengthen their understanding and problem-solving skills in geometry.

ICSE Class 9 Maths Selina Solutions Chapter 12

Below we have provided ICSE Class 9 Maths Selina Solutions Chapter 12 -

1. In triangle ABC, M is the mid-point of AB, and a straight line through M and parallel to BC cuts AC in N. Find the lengths of AN and MN if BC = 7 cm and AC = 5 cm.

Solution:

The triangle is shown below:

Since M is the midpoint of AB and MN || BC

Then, by the mid-point theorem N is the midpoint of AC.

Therefore.

$$MN = \frac{1}{2}BC = \frac{1}{2} \times 7 = 3.5cm$$

And, AN =
$$\frac{1}{2}$$
 AC = $\frac{1}{2}$ × 5 = 2.5cm

2. Prove that the figure obtained by joining the mid-points of the adjacent sides of a rectangle is a rhombus.

Solution:

The figure is shown below:

Let ABCD be a rectangle, with P, Q, R, and S representing the AB, BC, CD, and DA midpoints. The next step is to demonstrate that PQRS is a rhombus.

The two diagonals BD and AC should be drawn as seen in the figure

And, BD = AC [Since diagonals of a rectangle are equal]

Proof:

From \triangle ABD and \triangle BCD, we have

 $PS = \frac{1}{2} BD = QR \text{ and } PS \parallel BD \parallel QR$

2PS = 2QR = BD and PS || QR ... (1)

Similarly,

2PQ = 2SR = AC and $PQ \parallel SR \dots (2)$

From (1) and (2) we get

PQ = QR = RS = PS

Therefore, PQRS is a rhombus.

- Hence proved
- 3. D, E, and F are the mid-points of the sides AB, BC, and CA of an isosceles \triangle ABC in which AB = BC. Prove that \triangle DEF is also isosceles.

Solution:

The figure is shown below:

Given that AB = AC and that ABC is an isosceles triangle

Since the midpoints of AB, BC, and CA are, respectively, D, E, and F

Therefore, by the mid-point theorem

Therefore, DEF is an isosceles triangle where DE = EF.

- Hence proved
- 4. The following figure shows a trapezium ABCD in which AB // DC. P is the mid-point of AD and PR // AB. Prove that:

$$PR = \frac{1}{2} (AB + CD)$$

Solution:

Given,

P is the midway between AD and PR || AB in \triangle ABD.

Q is therefore BD's midpoint. Using the midpoint theorem

Similarly, R is the midpoint of BC as PR || CD || AB

Now, from $\triangle ABD$

$$2PQ = AB ... (1)$$

And, from $\triangle BCD$

Adding (1) and (2), we get

$$2(PQ + QR) = AB + CD$$

$$2PR = AB + CD$$

$$PR = \frac{1}{2} (AB + CD)$$

- Hence proved.
- 5. The figure, given below, shows a trapezium ABCD. M and N are the mid-points of the non-parallel sides AD and BC respectively. Find:
- (i) MN, if AB = 11 cm and DC = 8 cm.

(ii) AB, if DC = 20 cm and MN = 27 cm.

(iii) DC, if MN = 15 cm and AB = 23 cm.

Solution:

Let's draw a diagonal AC as shown in the figure below,

(i) Given, AB = 11cm and CD = 8cm

From $\triangle ABC$, we have

$$ON = \frac{1}{2}AB = \frac{1}{2} \times 11 = 5.5cm$$

From \triangle ACD, we have

$$OM = \frac{1}{2} CD = \frac{1}{2} \times 8 = 4cm$$

Hence, MN = OM + ON

$$= (4 + 5.5)$$

= 9.5 cm

(ii) Given, CD = 20cm and MN = 27cm

From $\triangle ACD$, we have

$$OM = \frac{1}{2} CD = \frac{1}{2} \times 20 = 10 cm$$

Therefore, ON = 27 - 10 = 17cm

Then from $\triangle ABC$, we have

AB = 2 ON

= 34cm

(iii) Given, AB = 23cm and MN = 15cm

From $\triangle ABC$, we have

$$ON = \frac{1}{2}AB = \frac{1}{2} \times 23 = 11.5cm$$

Therefore, OM = 15 - 11.5 = 3.5cm

Then from $\triangle ACD$, we have

CD = 2 OM

 $= 2 \times 3.5$

= 7cm

6. The diagonals of a quadrilateral intersect at right angles. Prove that the figure obtained by joining the mid-points of the adjacent sides of the quadrilateral is a rectangle.

Solution:

The figure is shown below:

Let ABCD be a quadrilateral, with P, Q, R, and S representing the AB, BC, CD, and DA midpoints.

At point O, the diagonals AC and BD connect at a straight angle.

Proof that PQRS is a rectangle is necessary.

Proof:

From \triangle ABC and \triangle ADC, we have

2PQ = AC and PQ || AC ... (1)

2RS = AC and RS || AC ... (2)

From (1) and (2) we get,

PQ = RS and PQ || RS

Similarly,

PS = RQ and PS||RQ

Therefore, PQRS is a parallelogram.

Now as PQ||AC, we have

 $\angle AOD = \angle PXO = 90^{\circ}$ [Corresponding angles]

Again, as BD||RQ, we have

 $\angle PXO = \angle RQX = 90^{\circ}$ [Corresponding angle]

Similarly,

$$\angle$$
QRS = \angle RSP = \angle SPQ = 90°

Therefore, PQRS is a rectangle.

- Hence proved

7. L and M are the mid-points of sides AB and DC respectively of parallelogram ABCD. Prove that segments DL and BM trisect diagonal AC.

Solution:

The required figure is shown below:

We have,

BL = DM and BL || DM and BLMD is a parallelogram

 \Rightarrow BM || DL

Now, in $\triangle ABY$, we have

L is the midpoint of AB and XL || BY,

Therefore, x is the midpoint of AY

$$\Rightarrow$$
 AX = XY ... (1)

Similarly for triangle CDX

$$\Rightarrow$$
 CY = XY ... (2)

From (1) and (2), we get

$$AX = XY = CY$$
 and $AC = AX + XY + CY$

Consequently, the parallelogram ABCD's diagonal AC is trisected by segments DL and BM.

8. ABCD is a quadrilateral in which AD = BC. E, F, G, and H are the mid-points of AB, BD, CD, and Ac respectively. Prove that EFGH is a rhombus.

Solution:

From the figure,

In \triangle ADC and \triangle ABD, we have

$$2GH = AD$$
 and $2EF = AD$,

$$\Rightarrow$$
 2GH = 2EF = AD ... (2)

Now, in \triangle BCD and \triangle ABC, we have

$$\Rightarrow$$
 2GF = 2EH = BC ... (3)

From (1), (2), (3) we get

$$\Rightarrow$$
 GH = EF = GF = EH

Therefore, EFGH is a rhombus.

- Hence proved
- 9. A parallelogram ABCD has P as the mid-point of DC and Q as a point of AC such that $CQ = \frac{1}{4}$ AC. PQ produced meets BC at R.

Prove that:

- (i) R is the midpoint of BC
- (ii) PR = $\frac{1}{2}$ DB

Solution:

Let's draw the diagonal BD as shown below.

At point X, the diagonal cuts AC and BD meet.

A parallelogram's diagonals are known to bisect one another.

Therefore, AX = CX and BX = DX

Given,

$$CQ = \frac{1}{4}AC$$

$$CQ = \frac{1}{4} \times 2CX$$

$$CQ = \frac{1}{2}CX$$

Therefore, Q is the midpoint of CX. (i) For \triangle CDX, PQ || DX or PR || BD And in $\triangle CBX$, Q is the midpoint of CX and QR||BX Therefore, R is the midpoint of BC (ii) In ∆BCD, As P and R are the midpoint of CD and B, we have Thus. PR = ½ DB 10. D, E, and F are the mid-points of the sides AB, BC, and CA respectively of △ABC. AE meets DF at O. P and Q are the mid-points of OB and OC respectively. Prove that DPQF is a parallelogram. Solution: The required figure is shown below: In \triangle ABC and \triangle OBC, we have 2DE = BC and 2PQ = BC,Therefore, $DE = PQ \dots (1)$ In \triangle ABO and \triangle ACO, we have 2PD = AO and 2FQ = AO, Therefore, $PD = FQ \dots (2)$ From (1) and (2), we get that PQFD is a parallelogram. Hence proved. 11. In triangle ABC, P is the mid-point of side BC. A line through P and parallel to CA meets AB at point Q, and a line through Q and parallel to BC meets median AP at point R. **Prove that:**

- (i) AP = 2AR
- (ii) BC = 4QR

Solution:

The required figure is shown below:

P is the midpoint of BC, PQ || AC, and QR || BC, as can be seen.

Consequently, Q and R are the midpoints of AB and AP, respectively.

- (i) Thus, AP = 2AR
- (ii) Let's extend QR such that it cuts AC at S as shown in the figure.

Now, in \triangle PQR and \triangle ARS, we have

 \angle PQR = \angle ARS (Opposite angles)

PR = AR

 $PQ = AS (Since, PQ = AS = \frac{1}{2} AC)$

Thus, △PQR ≅ △ARS by SAS congruence criterion

Therefore, by CPCT

QR = RS

Now,

BC = 2QS

 $BC = 2 \times 2QR$

BC = 4QR

- Hence proved
- 12. In trapezium ABCD, AB is parallel to DC; P and Q are the mid-points of AD and BC respectively. BP produced meets CD produced at point E. Prove that:
- (i) Point P bisects BE,
- (ii) PQ is parallel to AB.

Solution:

The required figure is shown below:

(i) In \triangle PED and \triangle ABP, we have

PD = AP [Since P is the mid-point of AD]

 \angle DPE = \angle APB [Opposite angles]

∠PED = ∠PBA [Alternate angles as AB || CE]

∴ ∆PED ≅ ∆ABP by ASA congruence postulate

Thus, by CPCT

EP = BP

(ii) For \triangle ECB, we have PQ||CE

Also, CE||AB

Therefore, PQ||AB

- Hence proved

13. In a triangle ABC, AD is a median and E is the mid-point of median AD. A line through B and E meets AC at point F. Prove that AC = 3AF.

Solution:

The required figure is shown below:

Let's draw a line DG || BF

Now,

In \triangle ADG, we have

DG || BF and E is the midpoint of AD

Therefore, F is the midpoint of AG

$$\Rightarrow$$
 AF = GF ... (1)

And, in \triangle BCF, we have

DG || BF and D is the midpoint of BC

Therefore, G is the midpoint of CF

AC = AF + GF + CF [From figure]

AC = 3AF [From (1) and (2)]

- Hence proved.
- 14. D and F are midpoints of sides AB and AC of a triangle ABC. A line through F and parallel to AB meets BC at point E.
- (i) Prove that BDFE is parallelogram
- (ii) Find AB, if EF = 4.8 cm.

Solution:

The required figure is shown below:

(i) Since F is the midpoint and EF || AB

Therefore, E is the midpoint of BC

So, BE =
$$\frac{1}{2}$$
 BC and EF = $\frac{1}{2}$ AB ... (1)

And,

Since D and F are the midpoint of AB and AC

Therefore, DE||BC

So, DF =
$$\frac{1}{2}$$
 BC and DB = $\frac{1}{2}$ AB ... (2)

From (1) and (2), we get

BE = DF and BD = EF

Hence, BDEF is a parallelogram.

- (ii) Now, AB = 2EF
- $= 2 \times 4.8$
- = 9.6cm
- 15. In triangle ABC, AD is the median, and DE, drawn parallel to side BA, meets AC at point E. Show that BE is also a median.

Solution:

In \triangle ABC, we have

AD is the median of BC

D is the mid-point of BC

Given that DE || BA

So, by the converse of the mid-point theorem,

DE bisects AC

⇒ E is the mid-point of AC

And, BE is the median of AC

Hence, BE is also a median.

16. In \triangle ABC, E is the mid-point of the median AD, and BE produced meets side AC at point Q. Show that BE: EQ = 3:1.

Solution:

Construction: Draw DY || BQ

In \triangle BCQ and \triangle DCY, we have

 \angle BCQ = DCY [Common]

 \angle BQC = \angle DYC [Corresponding angles]

So, \triangle BCQ ~ \triangle DCY by AA similarity criterion

Thus,

BQ/DY = BC/DC = CQ/CY [Corresponding sides are proportional]

BQ/DY = 2 ... (i)

Similarly, $\triangle AEQ \sim \triangle ADY$

EQ/DY = $AE/ED = \frac{1}{2}$ [E is the mid-point of AD]

 \Rightarrow EQ/DY = $\frac{1}{2}$... (ii)

On dividing (i) by(ii), we get

BQ/EQ = 4

BQ = 4 EQ

BE + EQ = 4EQ

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BE = 3EQ
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Therefore, BE/EQ = 3/1

17. In the given figure, M is the mid-point of AB and DE, whereas N is the mid-point of BC and DF. Show that: EF = AC.

Solution:

In \triangle EDF, we have

M is the mid-point of AB and N is the mid-point of DE

So, $MN = \frac{1}{2} EF$ (By mid-point theorem)

EF = 2MN ... (i)

In \triangle ABC, we have

M is the mid-point of AB and N is the mid-point of BC

 $MN = \frac{1}{2} AC$ (By mid-point theorem)

 $AC = 2MN \dots (ii)$

From (i) and (ii), we get

EF = AC

ICSE Class 9 Maths Selina Solutions Chapter 12 Exercise 12B

- 1. Use the following figure to find:
- (i) BC, if AB = 7.2 cm.
- (ii) GE, if FE = 4 cm.
- (iii) AE, if BD = 4.1 cm
- (iv) DF, if CG = 11 cm.

Solution:

According to the equal intercept theorem, as CD = DE

 \Rightarrow AB = BC and EF = GF

Thus,
(i) BC = AB = 7.2cm
(ii) GE = EF + GF
= 2EF
= 2 × 4
= 8 cm
Since B, D, and F are the midpoints and AE BF CG
Therefore, AE = 2BD and CG = 2DF
(iii) AE = 2BD
= 2 × 4.1
= 8.2 cm
(iv) DF = $\frac{1}{2}$ CG
$= \frac{1}{2} \times 11$
= 5.5 cm
2. In the figure, given below, 2AD = AB, P is the mid-point of AB, and Q is the mid-point of DR and PR $\#$ BS. Prove that:
(i) AQ // BS
(ii) DS = 3 Rs.
Solution:
Given, AD = AP = PB as 2AD = AB and P is the midpoint of AB
(i) In \triangle DPR, we have
A and Q are the midpoints of DP and DR
Therefore, AQ PR
Now, as PR BS
∴ AQ BS

(ii) In \triangle ABC, P is the midpoint, and PR || BS

Therefore, R is the midpoint of BC

Now, in \triangle BRS and \triangle QRC, we have

 \angle BRS = \angle QRC

BR = RC

∠RBS = ∠RCQ

∴ ∆BRS ≅ ∆QRC by SAS Congruence criterion

Hence, by CPCT

QR = RS

Thus, DS = DQ + QR + RS

= QR + QR + RS

= 3RS

3. The side AC of a triangle ABC is produced to point E so that CE = $\frac{1}{2}$ AC. D is the mid-point of BC and ED produced meets AB at F. Lines through D and C are drawn parallel to AB which meet AC at point P and EF at point R respectively. Prove that:

(i)
$$3DF = EF$$
 (ii) $4CR = AB$.

Solution:

Let's consider the figure below:

In this case, DP is parallel to AB and D is the midpoint of BC.

Consequently, PD = $\frac{1}{2}$ AB, and P is the midway of AC.

(i) Again, in $\triangle AEF$ we have AE || PD || CR and AP = 1/3 AE

Therefore, DF = 1/3 EF

$$\Rightarrow$$
 3DF = EF

- Hence proved
- (ii) In $\triangle PED$, we have PD || CR , and C is the midpoint of PE

Now, by angle sum property of ∆ABC

$$\angle$$
ABC + \angle ACB + \angle BAC = 180°

$$\Rightarrow$$
 \angle QBC + \angle PCB + \angle BAC = 180°

$$\angle$$
QAN + \angle PAM + \angle BAC = 180° [From (1) and (3)]

Therefore, it's a straight angle, and M, A, and N must be collinear.

(ii) Now, from (2) and (4) we have

AM = AN

Hence, A is the midpoint of MN.

5. In triangle ABC, angle B is obtuse. D and E are mid-points of sides AB and BC respectively and F is a point on side AC such that EF is parallel to AB. Show that BEFD is a parallelogram.

Solution:

The figure is shown below:

We have,

EF||AB and E is the midpoint of BC

Therefore, F is the midpoint of AC

And,

EF = BD as D is the midpoint of AB

Now, as BE || DF

BE = DF as E is the midpoint of BC.

Therefore, BEFD is a parallelogram.

- 6. In a parallelogram ABCD, E, and F are mid-points of the sides AB and CD respectively. The line segments AF and BF meet the line segments ED and EC at points G and H respectively. Prove that:
- (i) Triangles HEB and FHC are congruent
- (ii) GEHF is a parallelogram.

Solution:

The figure is shown below:

(i) In \triangle HEB and \triangle HCF, we have

BE = FC [Given]

 \angle EHB = \angle FHC [Vertically opposite angles]

 \angle HBE = \angle HFC [Alternate angles]

∴ ∆HEB ≅ ∆HCF by ASA congruence criterion

∴ EH = CH, BH = FH

(ii) Similarly, AG = GF and EG = DG ... (1)

In \triangle ECD, we have

F and H are the midpoints of CD and EC respectively

Therefore, HF || DE and HF = $\frac{1}{2}$ DE ... (2)

From (1) and (2), we get

HF = EG and HF || EG

Similarly, we can show

EH = GF and EH || GF

Therefore, GEHF is a parallelogram.

7. In triangle ABC, D, and E are points on side AB such that AD = DE = EB. Through D and E, lines are drawn parallel to BC which meet side AC at points F and G respectively. Through F and G, lines are drawn parallel to AB which meet side BC at points M and N respectively. Prove that: BM = MN = NC.

Solution:

The figure is shown below:

In \triangle AEG, we have

D is the midpoint of AE and DF || EG || BC

Therefore, F is the midpoint of AG

Again, we have DF || EG || BC and DE = BE

Therefore, $GF = GC \dots (2)$

From (1) and (2), we get

AF = GF = GC

Similarly, as GN || FM || AB and AF = GF

Therefore, BM = MN = NC

- Hence proved.

8. In triangle ABC; M is the mid-point of AB, N is the mid-point of AC and D is any point in base BC. Use the intercept theorem to show that MN bisects AD.

Solution:

The figure is shown below

As M and N are the midpoint of AB and AC respectively and MN || BC

Then according to the intercept theorem, we have

AM = BM

And therefore, AX = DX.

Hence proved

9. If the quadrilateral formed by joining the mid-points of the adjacent sides of quadrilateral ABCD is a rectangle, show that the diagonals AC and BD intersect at a right angle.

Solution:

The figure is shown below:

Let ABCD be a quadrilateral where P, Q, R, and S are the midpoints of AB, BC, CD, and DA.

And, PQRS is a rectangle

Diagonal AC and BD intersect at point O.

Required to show: AC and BD intersect at right angle.

Proof:

As PQ || AC,

 \Rightarrow \angle AOD = \angle PXO [Corresponding angles] ... (1)

Again, as BD||RQ,

 \Rightarrow \angle PXO = \angle RQX = 90° [Corresponding angle and angle of rectangle] ... (2)

From (1) and (2), we get

∠AOD = 90°

Similarly,

 \angle AOB = \angle BOC = \angle DOC = 90°

Therefore, diagonals AC and BD intersect at a right angle

- Hence proved.

10. In triangle ABC; D and E are mid-points of the sides AB and AC respectively. Through E, a straight line is drawn parallel to AB to meet BC at F. Prove that BDEF is a parallelogram. If AB = 16 cm, AC = 12 cm, and BC = 18 cm, find the perimeter of the parallelogram BDEF.

Solution:

The figure is shown below:

As E is the midpoint of AC and EF||AB, we have

Thus, F is the midpoint of BC and

2DE = BC or DE = BF

Again, as D and E are midpoints, we have

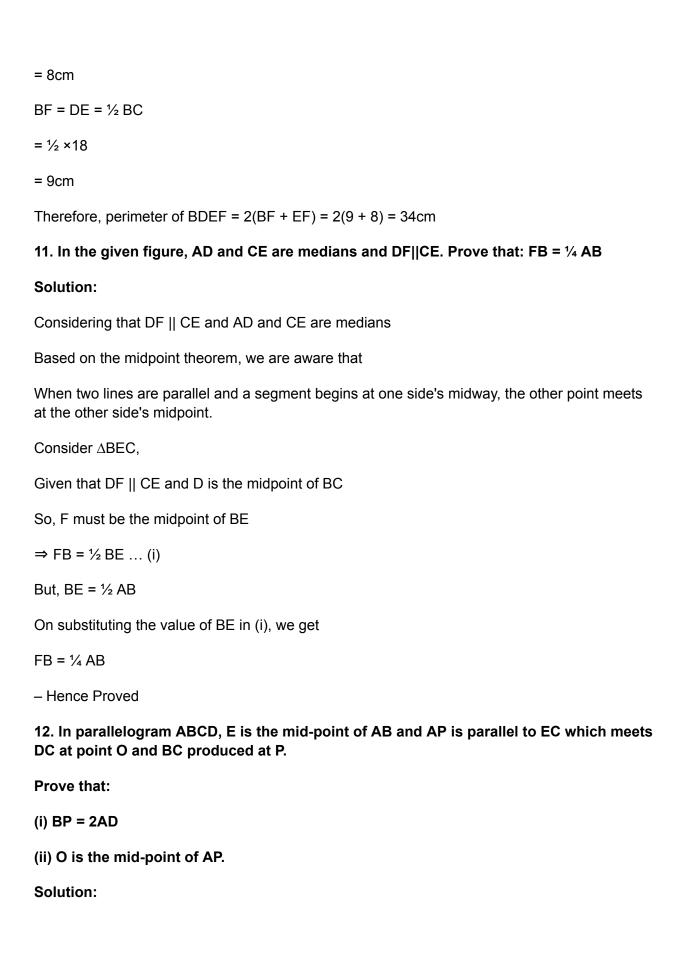
DEIIBF and EF = BD

Hence, BDEF is a parallelogram.

Now,

BD = EF = ½ AB

 $= \frac{1}{2} \times 16$



Given ABCD is parallelogram,

$$\Rightarrow$$
 AD = BC and AB = CD

(i) Now, in $\triangle APB$

Given, EC is parallel to AP and E is the midpoint of side AB

So, by the midpoint theorem,

C is the midpoint of BP

So, BP = 2BC

But,

BC = AD as ABCD is a parallelogram.

Hence, BP = 2AD

(ii) In ∆APB, we have

AB | OC as ABCD is a parallelogram

So, by the midpoint theorem

O is the midpoint of the AP

Hence Proved.

13. In trapezium ABCD, sides AB and DC are parallel to each other. E is the mid-point of AD and F is the mid-point of BC. Prove that: AB + DC = 2EF.

Solution:

In trapezium ABCD, we have

E and F are the midpoints of sides AD and BC respectively

We know that, AB = GH = IJ

From the midpoint theorem, we have

EG = $\frac{1}{2}$ DI and

 $HF = \frac{1}{2}JC$

Now, consider the L.H.S, we have

$$AB + CD = AB + CJ + JI + ID$$

So,
$$AB + CD = 2(AB + HF + EG)$$

$$= 2(EG + GH + HF)$$

= 2EF

- Hence Proved.

14. In \triangle ABC, AD is the median and DE is parallel to BA, where E is a point in AC. Prove that BE is also a median.

Solution:

Given, that ΔABC and AD are the median

So, D is the midpoint of side BC

Also, given DE || AB

The midway theorem states that

E must be AC's midway.

Thus, the median is always the line that connects the vertex with the opposite side's midway.

Therefore, BE is also $\triangle ABC$'s median.

15. Adjacent sides of a parallelogram are equal and one of the diagonals is equal to any one of the sides of this parallelogram. Show that its diagonals are in the ratio $\sqrt{3}$:1.

Solution:

It is a rhombus if the parallelogram's neighboring sides are equal.

At this point, a rhombus's diagonals are perpendicular to one another and bisect one another.

Assume that x and y are the diagonals' lengths.

The length of the diagonal should match the rhombus's sides.

Now, in right-angled $\triangle BOC$

By Pythagoras theorem,

$$OB^2 + OC^2 = BC^2$$

$$(y/2)^2 + (x/2)^2 = y^2$$

$$x^2/4 = y^2 - y^2/4$$

$$x^2/4 = (4y^2 - y^2)/4$$

$$x^2/4 = 3y^2/4$$

$$x^2 = 3y^2$$

$$x^2/v^2 = 3/1$$

$$x/y = \sqrt{3}/1$$

Thus, the diagonals are in the ratio $\sqrt{3}$: 1

Benefits of ICSE Class 9 Maths Selina Solutions Chapter12

Selina Solutions for ICSE Class 9 Maths Chapter 12 "Mid Point and Its Converse" offer several benefits for students studying this topic. Here are some key advantages:

Comprehensive Coverage: Selina Solutions provide a thorough explanation of concepts related to midpoints and their properties. They cover all essential topics, ensuring that students have a complete understanding of the chapter.

Step-by-Step Solutions: Each problem in Selina Solutions is solved step-by-step, making it easier for students to follow and understand the reasoning behind each solution. This helps in grasping the methodology required to solve similar problems.

Clarity and Structure: The solutions are structured in a clear and organized manner. This helps students develop a systematic approach to problem-solving, which is crucial for exams.

Practice Material: Selina Solutions typically include a variety of practice questions, ranging from basic to advanced levels. This allows students to gauge their understanding and practice extensively.

Additional Resources: Apart from solutions to textbook exercises, Selina Solutions often provide additional notes, tips, and shortcuts that can aid students in understanding concepts more effectively.

Exam Preparation: By using Selina Solutions, students can familiarize themselves with the types of questions likely to appear in exams. This helps in building confidence and reducing anxiety during exams.