



MATHS

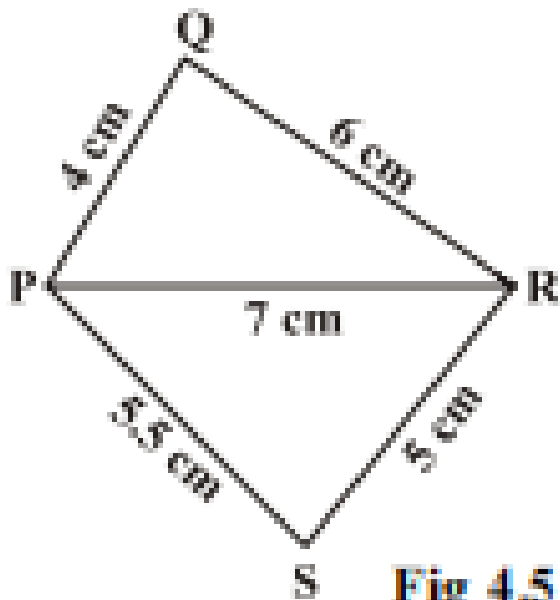
BOOKS - PSEB

PRACTICAL GEOMETRY

Example

1. Construct a quadrilateral PQRS where $PQ = 4$ cm, $QR = 6$ cm, $RS = 5$ cm, $PS = 5.5$ cm and $PR = 7$

cm.



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2. Construct a quadrilateral ABCD, given that $BC = 4.5$ cm, $AD = 5.5$ cm, $CD = 5$ cm the diagonal $AC = 5.5$ cm and diagonal $BD = 7$ cm.

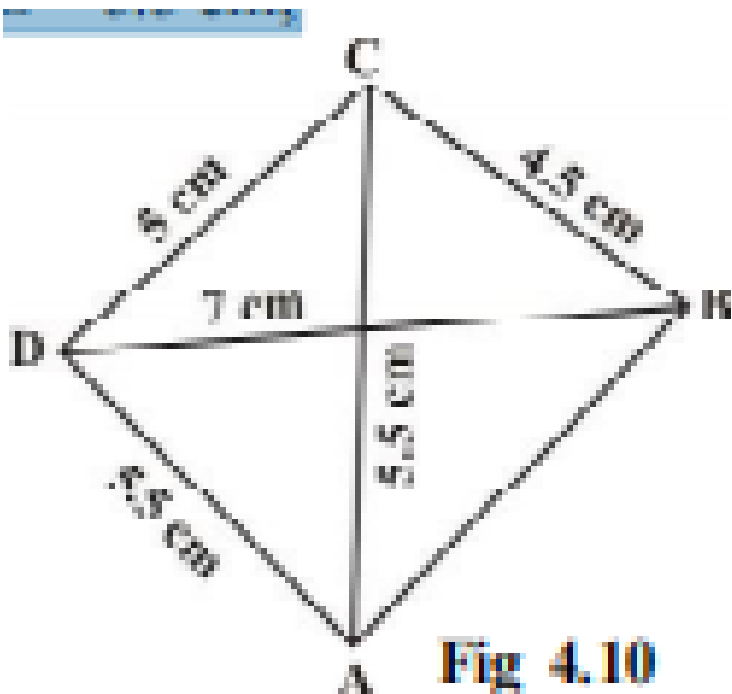


Fig 4.10



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3. Construct a quadrilateral MIST where $MI = 3.5$ cm, $IS = 6.5$ cm, $\angle M = 75^\circ$, $\angle I = 105^\circ$ and $\angle S = 120^\circ$.



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4. Construct a quadrilateral ABCD, where $AB = 4$ cm, $BC = 5$ cm, $CD = 6.5$ cm and $\angle B = 105^\circ$ and $\angle C = 80^\circ$.



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5. Draw a square of side 4.5 cm.



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6. Is it possible to construct a rhombus ABCD where $AC = 6$ cm and $BD = 7$ cm? Justify your answer.



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Exercise

1. Construct the following quadrilaterals.

Quadrilateral ABCD. $AB = 4.5$ cm $BC = 5.5$ cm CD

$= 4$ cm $AD = 6$ cm $AC = 7$ cm



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2. Construct the following quadrilaterals.

Quadrilateral JUMP $JU = 3.5$ cm $UM = 4$ cm $MP =$

5 cm $PJ = 4.5$ cm $PU = 6.5$ cm



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3. Construct the following quadrilaterals.

Parallelogram MORE OR = 6 cm RE = 4.5 cm EO

= 7.5 cm



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4. Construct the following quadrilaterals :

Rhombus BEST

BE = 4.5 cm

ET = 6 cm.



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5. Construct the following quadrilaterals.

quadrilateral LIFT LI = 4 cm IF = 3 cm TL = 2.5

cm LF = 4.5 cm IT = 4 cm



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6. Quadrilateral GOLD

OL = 7.5 cm

GL = 6 cm.

GD = 6 cm

$LD = 5 \text{ cm}$

$OD = 10 \text{ cm.}$



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7. Construct the following quadrilateral :

Rhombus BEND.

$BN = 5.6 \text{ cm}$

$DE = 6.5 \text{ cm.}$



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8. Construct the following quadrilaterals.

Quadrilateral MORE MO = 6 cm OR = 4.5 cm

$$\angle M = 60^\circ \angle O = 105^\circ \angle R = 105^\circ$$



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9. Construct the following quadrilaterals.

Quadrilateral PLAN PL = 4 cm LA = 6.5 cm

$$\angle P = 90^\circ \angle A = 110^\circ \angle N = 85^\circ$$



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10. Construct the following quadrilaterals.

Parallelogram HEAR HE = 5 cm EA = 6 cm

$$\angle R = 85^\circ$$



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11. Construct the following quadrilaterals.

Rectangle OKAY OK = 7 cm KA = 5 cm



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12. Construct the following quadrilaterals

Quadrilateral DEAR DE = 4 cm EA = 5 cm AR =

4.5 cm $\angle E = 60^\circ$ $\angle A = 90^\circ$



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13. Construct the following quadrilaterals.

Quadrilateral TRUE TR = 3.5 cm RU = 3 cm UE =

4 cm $\angle R = 75^\circ$ $\angle U = 120^\circ$



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14. Draw the following : The square READ with
RE = 5.1 cm.



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15. Draw the following : A rhombus whose
diagonals are 5.2 cm and 6.4 cm long.



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16. Draw the following : A rectangle with adjacent sides of lengths 5 cm and 4 cm.



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17. Draw the following : A parallelogram OKAY where $OK = 5.5$ cm and $KA = 4.2$ cm. Is it unique?



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