



# MATHS

## BOOKS - ASHOK PUBLICATION ASSAM

### Practical Geometry

#### Example

1. Construct the following quadrilateral ABCD.

$AB = 4.5 \text{ cm}$ ,  $BC = 5.5 \text{ cm}$ ,  $CD = 4 \text{ cm}$ ,  $AD = 6 \text{ cm}$ ,

$AC = 7 \text{ cm}$



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**2.** Construct the following quadrilateral ABCD.

$AB = 4.5 \text{ cm}$ ,  $BC = 5.5 \text{ cm}$ ,  $CD = 4 \text{ cm}$ ,  $AD = 6 \text{ cm}$ ,

$AC = 7 \text{ cm}$



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**3.** Construct the following quadrilaterals.

Parallelogram MORE

$OR = 6 \text{ cm}$ ,  $RE = 4.5 \text{ cm}$ ,  $EO = 7.5 \text{ cm}$



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4. Construct the following quadrilaterals.

Rhombus BEST

BE = 4.5 cm, ET = 6 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. Construct the following quadrilaterals.

Quadrilateral GOLD

OL = 7.5 m, GL = 6 cm, GD = 6 cm, LD = 5 cm, OD

= 10 cm



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7. Construct the following quadrilaterals.

Rhombus BEND BN = 5.6 cm, DE = 6.5 cm





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8. Construct the following quadrilateral.

Quadrilateral MORE

$MO = 6 \text{ cm}, \quad OR = 4.5 \text{ cm}$

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



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9. Construct the following quadrilateral.

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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**10.** Construct the following quadrilateral.

Parallelogram HEAR

HE = 5 cm, AR = 5 cm, EA = 6 cm,  $\angle R = 85^\circ$



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**11.** Construct the following quadrilateral.

Quadrilateral MORE

$$MO = 6 \text{ cm}, \quad OR = 4.5 \text{ cm}$$

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



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**12.** Construct the following quadrilateral.

Quadrilateral MORE

$$MO = 6 \text{ cm}, \quad OR = 4.5 \text{ cm}$$

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





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**13.** How will you construct a rectangle PQRS if you know only the lengths PQ and QR?

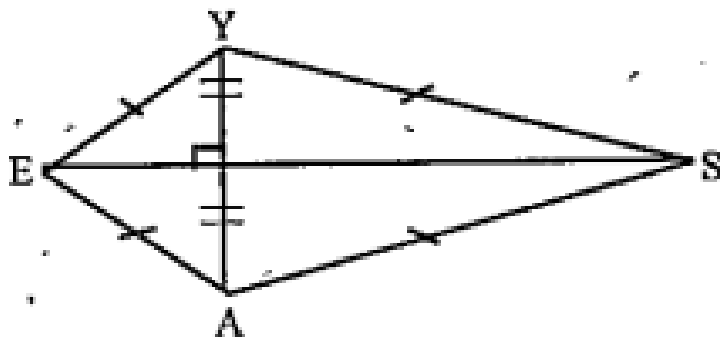


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**14.** Construct the kite EASY if  $AY = 8$  cm,  $EY = 4$  cm and  $SY = 6$  cm. Which properties of the kite



did you use in the process?



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15. Draw the following.

The square READ with  $RE = 5.1$  cm.

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**16.** Draw a rhombus whose diagonals are 5.2 cm and 6.4 cm



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**17.** Construct a rectangle with adjacent sides of lengths 5 cm and 4 cm.



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**18.** A parallelogram OKAY where  $OK = 5.5$  cm and  $KA = 4.2$  cm. It is unique?



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