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India's Number 1 Education App

MATHS

BOOKS - SWAN PUBLICATION

PRACTICAL GEOMETRY

Think Discuss And Write

1. Can you all four angles of a quadrilateral obtuse angles? Give reasons for your answer.

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2. We saw that 5 measurement of a quadrilateral can determine a quadrilateral uniquely. Do you think any five measurements of the quadrilateral can do this?

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3. Can you draw a parallelogram BATS where BA = 5cm, AT = 6 cm and AS = 6.5 cm? Why?

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4. Can you draw a rhombus ZEAL, where ZE = 3.5 cm, diagonal EL = 5cm? Why?

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5. A student attempted to draw a quadrilateral PLAY where PL = 3cm, LA = 4 cm, AY = 4.5cm, PY = 6 cm, LY=6 cm but could not draw it. What is the reason?

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6. With the help of compass we can draw the angle of

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7. Can you construct a quadrilateral PQRS with PQ = 3cm, RS = 3cm, PS = 7.5cm, PR = 8cm and SQ = 4 cm? Justify your answer.

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8. Can you construct the above quadrilateral (Fig. 4.18) MIST if we have 100° at M instead of 75°?

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9. Can you construct the above quadrilateral PLAN if PL = 6cm, LA = 9.5 cm, $\angle P = 75^\circ = \angle L = 150^\circ$ and $\angle A = 140^\circ$.

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10. In a parallelogram, the length of adjacent sides are known. Do we still need measure of the angles to construct above?

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11. The first genetic material could be

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12. Construct a quadrilateral ABCD when AB = 3.5 cm, BC = 4 cm,

CD = 3.7 cm,

DA = 4.2 cm and $\angle A = 120^\circ$.

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13. Quadrilateral PQRS in which

$PQ = QR = 6.2cm$

$\angle P = \angle Q = 100^\circ$

$\angle R = 90^\circ$

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14. Can you all four angles of a quadrilateral obtuse angles? Give reasons for your answer.

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15. We saw that 5 measurement of a quadrilateral can determine a quadrilateral uniquely. Do you think any five measurements of the quadrilateral can do this?

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26. Quadrilateral PQRS in which

$PQ = QR = 6.2cm$

$\angle P = \angle Q = 100^\circ$

$\angle R = 90^\circ$

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Exercise 4 1

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 ABCD

AB = 4.5 cm, BC = 5.5 cm, CD = 4 cm, AD = 6 cm, AC = 7 cm.

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Exercise 4 2

1. Construct the following quadrilaterals :

Qadrilateral LIFT

LI = 4 cm

IF = 3 cm

TL = 2.5 cm

LF = 4.5 cm

IT = 4 cm.

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2. Quadrilateral GOLD

OL = 7.5 cm

GL = 6 cm.

GD = 6 cm

LD = 5 cm

OD = 10 cm.

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3. Construct the following quadilateral : Rhombus BEND.

BN = 5.6 cm

DE = 6.5 cm.

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4. Construct the following quadrilaterals :

Qadrilateral LIFT

LI = 4 cm

IF = 3 cm

TL = 2.5 cm

LF = 4.5 cm

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LD = 5 cm

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6. Construct the following quadilateral : Rhombus BEND.

BN = 5.6 cm

DE = 6.5 cm.

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Exercise 4 3

1. Quadrilateral MORE

$MO = 6cm, OR = 4.5cm, \angle M = 60^\circ, \angle O = 105^\circ, \angle R = 105^\circ.$

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2. Quadrilateral PLAN

$PL = 4cm, LA = 6.5cm, \angle P = 90^\circ, \angle A = 110^\circ, \angle N = 85^\circ.$

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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. Rectangle OKAY OK = 7 cm KA = 5 cm

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5. Quadrilateral MORE

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cm KA = 5 cm

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Exercise 4 4

1. Quadrilateral DEAR

DE = 4 cm,EA = 5 cm,AR=4.5 cm , $\angle E = 60^\circ$, $\angle A = 90^\circ$.

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2. Quadrilateral TRUE

TR = 3.5 cm,RU = 3 cm,UE = 4 cm,$\angle R = 75^\circ$, $\angle U = 120^\circ$.

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3. Quadrilateral DEAR

DE = 4 cm,EA = 5 cm,AR=4.5 cm , $\angle E = 60^\circ$, $\angle A = 90^\circ$.

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4. Quadrilateral TRUE

TR = 3.5 cm,RU = 3 cm,UE = 4 cm,$\angle R = 75^\circ$, $\angle U = 120^\circ$.

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Exercise 4 5

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

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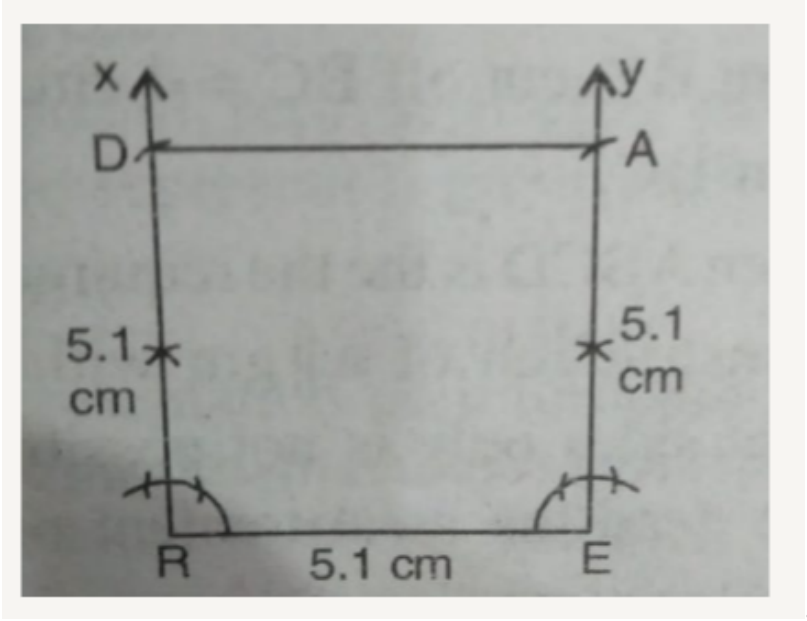
2. A rhombus whose diagonals are 5.2 cm and 6.4 cm along.



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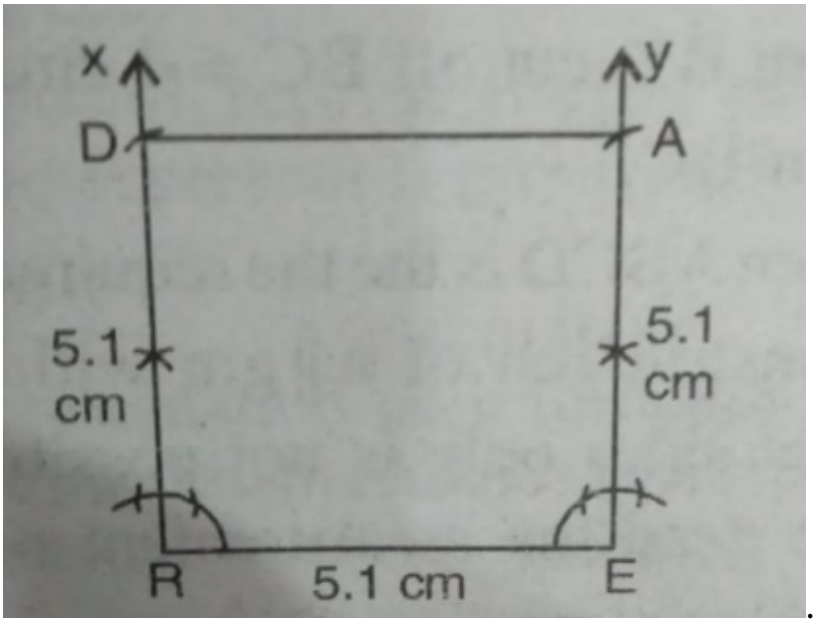
3. A rectangle with adjacent sides of lengths 5 cm and 4 cm.



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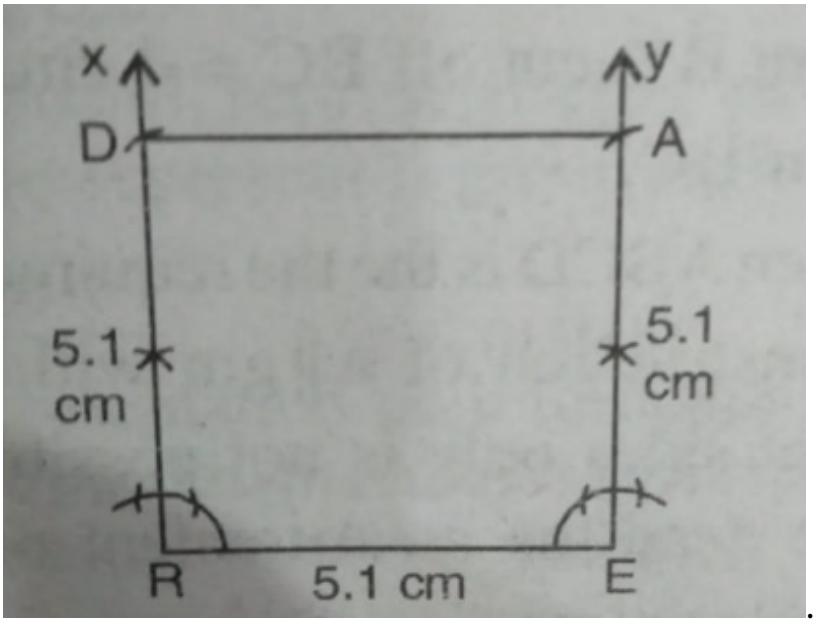
4. A parallelogram OKAY where OK = 5.5 cm and KA = 4.2 cm



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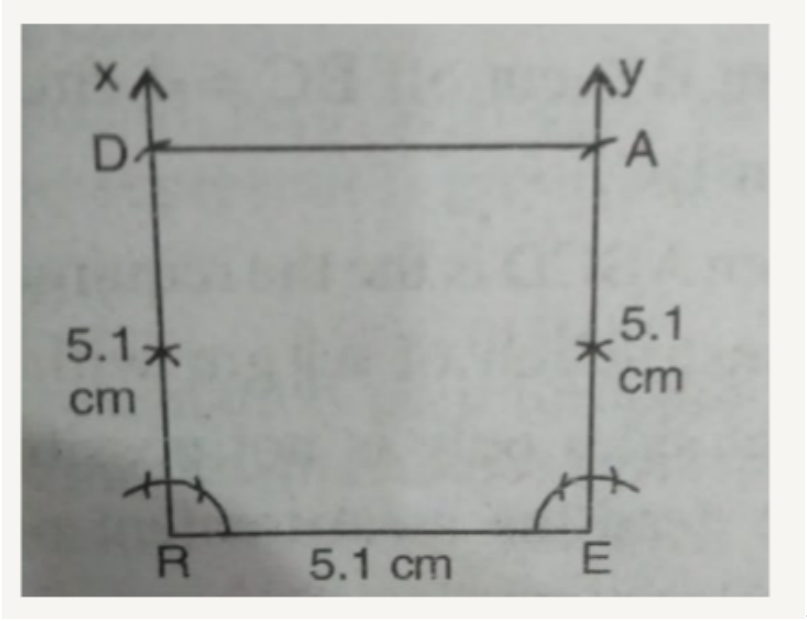

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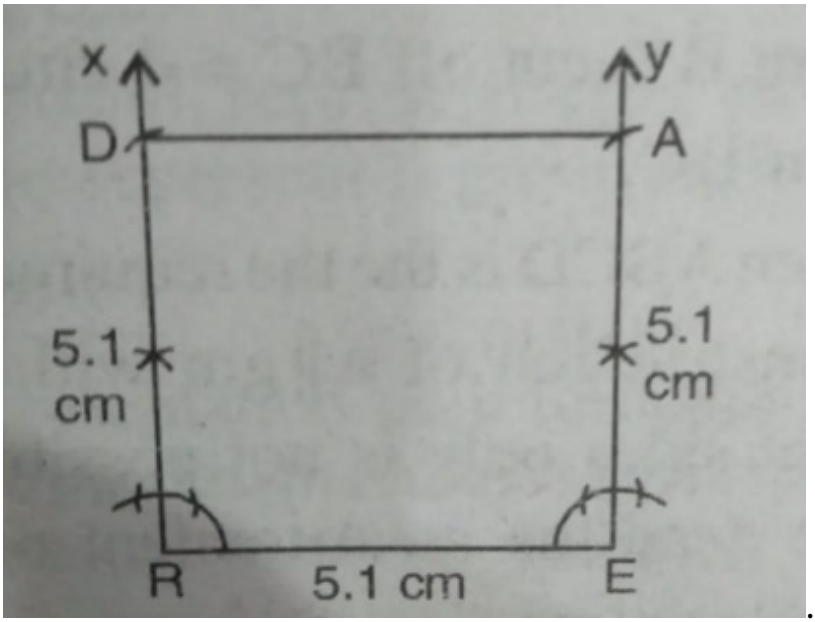

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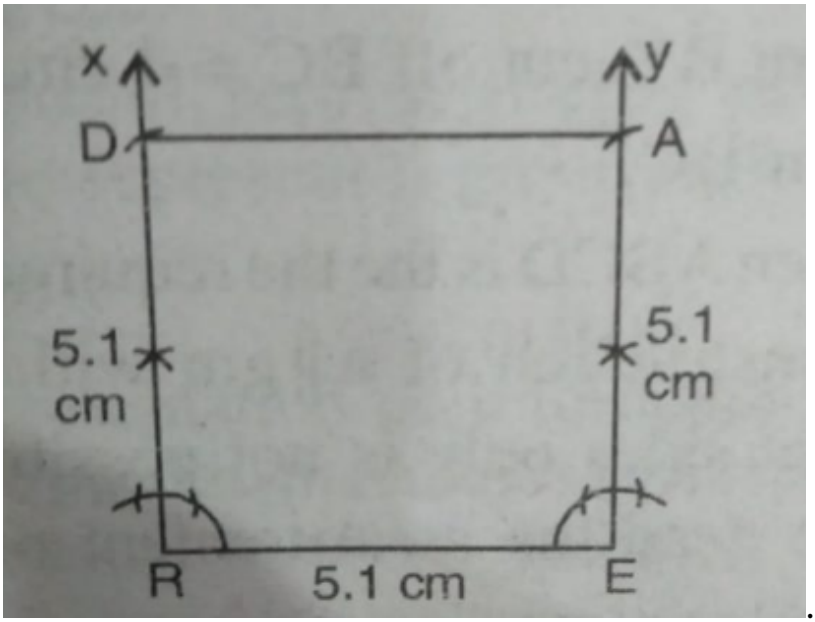

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Try These

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

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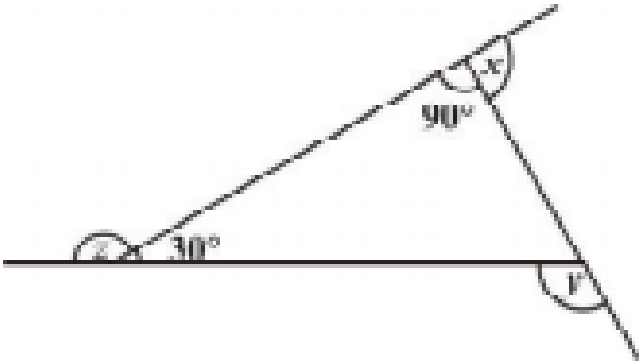
2. Find x+y+z



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

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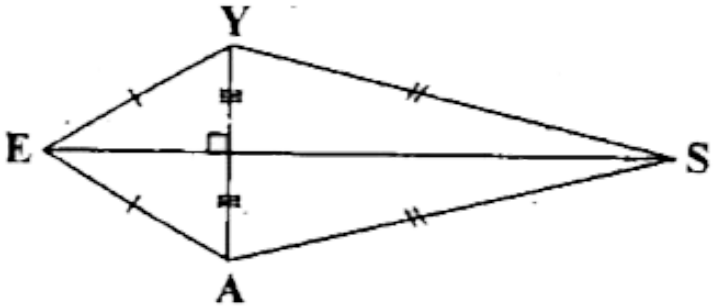
4. Construct the kite EASY if AY = 8 cm, EY=4 cm and SY = 6 cm (Fig.). Which properties of the kite did you use in the process?



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