

MATHS

BOOKS - RS AGGARWAL MATHS (HINGLISH)

CONSTRUCTION OF QUADRILATERALS

Example

1. Construct a parallelogram ABCD in which AB=6cm, BC=4.5 cm and

diagonal AC=6.8 cm.



2. Construct a parallelogram one of whose sides is 5.2 cm and

whose diagonals are 6 cm and 6.4 cm.



6. Construct a square ABCD each of whose diagonals is 5.2 cm.



$${\it \angle}P={\it \angle}R=100^\circ~~{
m and}~{\it \angle}S=75^\circ$$

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8. Construct a quadrilateral ABCD in which AB=4 cm, Ac=5 cm

,AD=5.5cm and $\angle ABC = \angle ACD = 90^\circ$



9. Construct a rhombus with side 4.2 cm and one of its angles equal

to 65° .



cm,RS=4.3 cm,SP=3.5 cm and diagonal PR=4cm.



3. Construct a quadrilateral ABCD in which AB=3.5 cm,BC=3.8

cm,CD=DA=4.5 cm and diagonal BD=5.6cm.









and AC=7.6 cm.



2. Construct a parallelogram ABCD in which AB=4.3 cm,AD=4 cm and

BD=6.8 cm.



5. Construct a parallelogram one of whose sides is 4.4cm and whose

diagonals are 5.6cm and 7cm . Measure the other side.



6. Construct a parallelogram ABCD in which AB=6.5cm,AC=3.4cm and the altitude AL for A is 2.5cm. Draw the altitude from C and measure

it.

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7. Construct a parallelogram ABCD AC=3.8cm, diagonal BD=4.6cm

and the angle between AC and BD is 60°

8. Construct a rectangle ABCD whose adjacent sides are 11cm and

8.5cm.



11. Construct a rhombus the lengths of whose diagonals are 6cm

and 8cm.



1. Define the terms: Open curve



4. Angles of a quadrilateral are in the ratio 1:2:3:4 Find the measure of each angle.



6. The sides of a rectangle are in the ratio 4:5 and its perimeter is

180cm. Find its sides,

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7. Prove that the diagonals of a rhombus bisect each other at right

angles

8. The diagonals of a rhombus are 16cm and 12cm. Find the length

of each side of the rhombus.



Answer: B

2. The angles of quadrilateral are in the ratio 1:3:7:9 The measure of the largest angle is

A. 63°

B. 72°

 $\mathsf{C.81}^\circ$

D. None of these

Answer: D

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3. The length of a rectangle is 8cm and each of its diagonals measures 10cm. The breadth of the rectangle is

A. 5cm

B.6cm

C.7cm

D. 9cm

Answer:

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4. In a square PQRS If PQ=(2x+3)cm and QR=(3x-5)cm

then

A. x=4

B. x=5

C. x=6

D. x=8

Answer:

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5. The bisectors of any two adjacent angles of a parallelogram intersect at

A. $30^{\,\circ}$

B. 45°

 ${\rm C.\,60^{\,\circ}}$

D. 90°

Answer: D

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6. How many diagonals are there in a hexagon?

A. 6		
B. 8		
C. 9		
D. 10		

Answer:



7. Each interior angle of a polygon is $135^{\,\circ}\,$ How many sides does it

have

A. 10

B. 8

C. 6

D. 5

Answer:		
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Test Paper 17 C		
1. For a convex polygon of n sides we have		
Sum of all exterior angles		
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2. For a convex polygon of n sides we have		
Sum of all interior angles		

3. For a convex polygon of n sides we have

Number of diagonals......



5. For a regular polygon of n sides we have

Sum of all interior angles.....



9. Each interior angle of a regular polygon is 108° . This polygon is

a.....sides

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10. A pentagon hasdiagonals.	
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Test Paper 17 D	
1. The diagonals of a parallelogram are equal.	

A. true

B. false

C. can not say anything

D. none of these

Answer: A

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2. Diagonals of a rectangle are perpendicular to each other.

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3. diagonals of a rhombus bisect each other at right angles.

A. true

B. false

C. can not say anything

D. none of these

Answer: A



4. Every rhombus is a kite.

A. true

B. false

C. can not say anything

D. none of these

Answer: A

1. Construct a quadrilateral PQRS in which PQ=4.2cm,