

CLASS 8 · HOTS · OLYMPIAD PREPARATION · DPP SHEET

Chapter 10: HOTS: Quadrilaterals (Class 8)

Daily practice problems: 8 questions with an answer key

Try every question on your own first. The answer key is on the last page.

1. The angles of a quadrilateral are in the ratio $2 : 3 : 4 : 6$. Find them.
2. Two adjacent angles of a parallelogram are in the ratio $1 : 4$. Find all the angles.
3. The diagonals of a rhombus are 16 cm and 30 cm. Find its side and area.
4. The sides of a rectangle are 9 cm and 12 cm. Find its diagonal.
5. The diagonals of a kite are 10 cm and 18 cm. Find its area.
6. The diagonal of a square is 10 cm. Find its area.
7. One angle of a parallelogram is 75° . Find the other three angles.
8. Find the sum of the interior angles of a pentagon.

Answer Key

1. 48° , 72° , 96° and 144° .
2. 36° , 144° , 36° and 144° .
3. Side 17 cm and area 240 square cm.
4. 15 cm.
5. 90 square cm.
6. 50 square cm.
7. 105° , 75° and 105° .
8. 540° .

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