

Name: \_\_\_\_\_

Date \_\_\_\_\_

Topic: Quadrilaterals - The Quadrilateral Family - Worksheet 1

1. If one angle of a parallelogram is  $64^\circ$ , find the number of degrees in the remaining 3 angles.
2. The perimeter of a rectangle is 74 and length is 32. What is the area of the rectangle?
3. In rhombus PQRS,  $PQ = 2x + 6$  and  $QR = 7x + 3$ . Find PS.
4. The perimeter of a square is 12. In simplest radical form, find the length of the diagonal of the square.
5. The opposite sides of a parallelogram are represented by  $4x + 2$  and  $3x + 4$ . Find the length of the side of the parallelogram represented by  $3x - 2$ .
6. If one angle of a parallelogram is  $36^\circ$ , find the number of degrees in the remaining 3 angles.
7. A square has four equal sides. (True or False)
8. The diagonals of a rhombus are 10 and 22. Find the perimeter of the rhombus.
9. In rectangle ABCD, the diagonals intersect at E.  
If  $AE = 3x + y$ ,  $BE = x - 2y$ , and  $CE = 42$ , find  $x$  and  $y$ .
10. If one angle of a parallelogram is  $116^\circ$ , find the number of degrees in the remaining 3 angles.



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Topic: Quadrilaterals - The Quadrilateral Family - Worksheet 2

1. If one angle of a parallelogram is  $68^\circ$ , find the number of degrees in the remaining 3 angles.
2. The perimeter of a rectangle is 76 and length is 30. What is the area of the rectangle?
3. In rhombus  $WXYZ$ ,  $WX = 3x + 5$  and  $XY = 6x + 4$ . Find  $WZ$ .
4. The perimeter of a square is 16. In simplest radical form, find the length of the diagonal of the square.
5. The opposite sides of a parallelogram are represented by  $5x + 4$  and  $3x + 6$ . Find the length of the side of the parallelogram represented by  $3x - 2$ .
6. If one angle of a parallelogram is  $38^\circ$ , find the number of degrees in the remaining 3 angles.
7. A rectangle has four equal sides. (True or False)
8. The diagonals of a rhombus are 9 and 18. Find the perimeter of the rhombus.
9. In rectangle  $ABCD$ , the diagonals intersect at  $E$ .  
If  $AE = 4x + y$ ,  $BE = 2x - 3y$ , and  $CE = 49$ , find  $x$  and  $y$ .
10. If one angle of a parallelogram is  $124^\circ$ , find the number of degrees in the remaining 3 angles.



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Topic: Quadrilaterals - The Quadrilateral Family - Worksheet 3

1. If one angle of a parallelogram is  $72^\circ$ , find the number of degrees in the remaining 3 angles.
2. The perimeter of a rectangle is 78 and length is 24. What is the area of the rectangle?
3. In rhombus DEFG,  $DE = 2x + 6$  and  $EF = 5x + 4$ . Find DG.
4. The perimeter of a square is 20. In simplest radical form, find the length of the diagonal of the square.
5. The opposite sides of a parallelogram are represented by  $6x + 5$  and  $2x + 7$ . Find the length of the side of the parallelogram represented by  $6x - 1$ .
6. If one angle of a parallelogram is  $42^\circ$ , find the number of degrees in the remaining 3 angles.
7. A parallelogram has two sides parallel. (True or False)
8. The diagonals of a rhombus are 12 and 16. Find the perimeter of the rhombus.
9. In rectangle MNOP, the diagonals intersect at R.  
If  $MR = 2x + 3y$ ,  $NR = 4x - 2y$ , and  $OR = 48$ , find  $x$  and  $y$ .
10. If one angle of a parallelogram is  $108^\circ$ , find the number of degrees in the remaining 3 angles.



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Topic: Quadrilaterals - The Quadrilateral Family - Worksheet 4

1. If one angle of a parallelogram is  $76^\circ$ , find the number of degrees in the remaining 3 angles.
2. The perimeter of a rectangle is 70 and length is 20. What is the area of the rectangle?
3. In rhombus  $RSTU$ ,  $RS = 3x + 7$  and  $ST = 6x + 3$ . Find  $RU$ .
4. The perimeter of a square is 24. In simplest radical form, find the length of the diagonal of the square.
5. The opposite sides of a parallelogram are represented by  $7x + 6$  and  $4x + 9$ . Find the length of the side of the parallelogram represented by  $5x - 2$ .
6. If one angle of a parallelogram is  $46^\circ$ , find the number of degrees in the remaining 3 angles.
7. A rhombus has four equal sides. (True or False)
8. The diagonals of a rhombus are 14 and 24. Find the perimeter of the rhombus.
9. In rectangle  $JKLM$ , the diagonals intersect at  $O$ .  
If  $JO = 3x + 2y$ ,  $KO = 6x - 4y$ , and  $LO = 56$ , find  $x$  and  $y$ .
10. If one angle of a parallelogram is  $132^\circ$ , find the number of degrees in the remaining 3 angles.



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Topic : Quadrilaterals -The Quadrilateral Family - Worksheet 5

1. If one angle of a parallelogram is  $45^\circ$ , find the number of degrees in the remaining 3 angles.
2. The perimeter of a rectangle is 82 and length is 24. What is the area of the rectangle?
3. In rhombus KLMN,  $KL = 4x + 5$  and  $LM = 2x + 7$ . Find KN.
4. The perimeter of a square is 28. In simplest radical form, find the length of the diagonal of the square.
5. The opposite sides of a parallelogram are represented by  $5x + 3$  and  $2x + 9$ . Find the length of the side of the parallelogram represented by  $2x - 2$ .
6. If one angle of a parallelogram is  $44^\circ$ , find the number of degrees in the remaining 3 angles.
7. A rhombus has two equal and parallel sides. (True or False)
8. The diagonals of a rhombus are 8 and 12. Find the perimeter of the rhombus.
9. In rectangle UVWX, the diagonals intersect at Z.  
If  $UZ = x + 3y$ ,  $VZ = 2x - 2y$ , and  $WZ = 40$ , find  $x$  and  $y$ .
10. If one angle of a parallelogram is  $130^\circ$ , find the number of degrees in the remaining 3 angles.

