

**1** If ABCD is a parallelogram, find the value of  $x$ .

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**24** If the perimeter of rhombus JKLM is 72 inches, find  $KN$ . (Round to the nearest tenth.)

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**46** If WXYZ is a kite,  $XZ = 18$  and  $WY = 52$ , find  $WX$ .

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# QUADRILATERALS

## TASK CARD ACTIVITY

Created by: ALL THINGS ALGEBRA

# QUADRILATERALS

## Task Cards!

**Objective:** To practice solving for missing sides and angles in parallelograms, rectangles, rhombi, squares, isosceles trapezoids, and kites. Students must use the properties of the quadrilaterals to solve for the missing pieces. Knowledge of the Pythagorean Theorem is required for some cards. Midsegment of an isosceles trapezoid included. This activity was designed for a high school level geometry class.

**Directions:**

- 1) Print, cut, and laminate the 46 task cards. Also, copy enough recording worksheets for each student. These are the ways I have run this activity:
  - Place 4 cards at each station and have students move in small groups from station to station after approximately 5 minutes. (This way you only have to copy one set of cards)
  - Students work in pairs and are given a card set. They work together to answer each card. You will need to print, cut, and laminate many sets. I typically prefer this because it leads to more one-on-one discussion.
- 2) They may check their answers by scanning the QR code on the card. A mobile device is required with a QR scanner app. An internet connection is not required to scan the code. It's very simple to set up, feel free to email me if you have any questions! A non-QR code version is also included.

Includes student worksheet, 46 task cards (both with or without QR codes), and answer key.

**1** If ABCD is a parallelogram, find the value of  $x$ .

$B = 7x + 2$   
 $D = 9x - 28$

**12** If PQRS is a rectangle, find the value of  $x$ .

$\angle QPS = (8x + 1)^\circ$   
 $\angle QSR = (10x - 10)^\circ$

**24** If the perimeter of rhombus JKLM is 72 inches, find KN. (Round to the nearest tenth.)

$KN = 16$  in

**36** If GDEF is an isosceles trapezoid, find  $m\angle E$ .

$\angle C = 139^\circ$

**46** If WXYZ is a kite,  $XZ = 18$  and  $WY = 52$ , find WX.

$XV = 23 - 2x$   
 $ZV = 7x - 13$