



Puzzle Time

Why Did The Pioneers Cross The Country In Covered Wagons?

A	B	C	D	E	F
G	H	I	J		

Complete each exercise. Find the answer in the answer column. Write the word under the answer in the box containing the exercise letter.

concurrent WAS
corner INDIANS
exterior WAIT
midsegment GOLD
2520° A
diagonal DIDN'T
acute HORSE
109° FORTY
octagon TRAIN
100° FOR

Complete the sentence.

- In a polygon, two vertices that are endpoints of the same side are called _____ vertices.
- A(n) _____ of a polygon is a segment that joins two nonconsecutive vertices.
- The sum of the measures of the interior angles of a(n) _____ n -gon is $(n - 2) \cdot 180^\circ$.
- The sum of the measures of the _____ angles of a quadrilateral is 360° .
- The sum of the measures of the _____ angles of a convex polygon, one angle at each vertex, is 360° .

Find the correct answer to the question for the interior angles of the convex polygon.

- Two angles of a triangle measure 54° and 17° . Find the measure of the third angle.
- Find the sum of the measures of the interior angles of a 14-gon.
- The sum of four angles in a pentagon is 440° . Find the missing angle measure.
- The sum of three angles in a pentagon is 320° , and the other two angles are $(x + 30)^\circ$ and $(x - 70)^\circ$. Find x .
- What regular polygon has each interior angle measuring 135° ?

interior TO
consecutive THEY
90° THE
non-convex NOW
120° WEATHER
convex WANT
decagon FIRST
130 A
289° FOR
2160° YEARS