

Puzzle Time

What Kind Of Ship Can Last Forever?

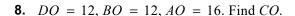
Circle the letter of each correct answer in the boxes below. The circled letters will spell out the answer to the riddle.

Complete the sentence.

- **1.** If both pairs of opposite sides of a quadrilateral are _____, then the quadrilateral is a parallelogram.
- **2.** If both pairs of opposite angles of a quadrilateral are congruent, then the quadrilateral is a ______.
- **3.** If one _____ of opposite sides of a quadrilateral are congruent and parallel, then the quadrilateral is a parallelogram.
- **4.** If the diagonals of a quadrilateral _____ each other, then the quadrilateral is a parallelogram.
- **5.** A quadrilateral is _____ a parallelogram.

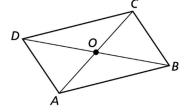
Find the indicated measure or find the value of \boldsymbol{x} that would make the figure a parallelogram.

- **6.** $m\angle CDA = m\angle CBA = 72^{\circ}, m\angle DAB = m\angle DCB.$ Find $m\angle DAB$.
- 7. $m\angle DAB = m\angle DCB = 89^{\circ}, m\angle CDA = m\angle CBA$. Find $m\angle CDA$.



9.
$$DC = 4x + 2$$
, $AB = 5x - 3$, $AD = CB$. Find x.

10.
$$AD = 2x + 1$$
, $CB = x + 8$, $DC = AB$. Find x.



F	Α	R	0	R	N	1	М	s	E
108°	89°	always	equal	congruent	side	sometimes	12	72°	parallelogram
I	G	N	F	D	S	н	Е	ı	Р
supplementary	6	pair	intersect	16	91°	bisect	24	7	5