

Handwritten notes showing the quadratic formula $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$ and a worked example for $x^2 - 12x + 20 = 0$. The example shows $a=1, b=-12, c=20$, leading to $x = \frac{12 \pm \sqrt{144 - 80}}{2}$, $x = \frac{12 \pm \sqrt{64}}{2}$, and solutions $x = 10$ and $x = 2$. A list of numbers is provided: 1) 2, 2) 20, 3) AB=10, EC=6, 4) 17, 5) 4, 6) 12, 7) 22, 8) 9, 9) 14, 10) 15, 11) 2, 12) 11. A diagram of a square with diagonals intersecting at E is shown.

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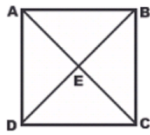
Parallelogram	Rectangle	Rhombus	Square
Opposite sides are	Opposite sides are	Opposite sides are	Opposite sides are
Consecutive angles are supplementary	Consecutive angles are supplementary	Consecutive angles are supplementary	Consecutive angles are supplementary
Opposite sides are \cong	Opposite sides are \cong	Opposite sides are \cong	Opposite sides are \cong
Opposite angles are \cong	Opposite angles are \cong	Opposite angles are \cong	Opposite angles are \cong
Diagonals bisect each other	Diagonals bisect each other	Diagonals bisect each other	Diagonals bisect each other
	All angles are right	Diagonals are perpendicular	All angles are right
	Diagonals are \cong	All sides are \cong	All sides are \cong
		Diagonals bisect the angles	Diagonals are perpendicular
	Diagonals bisect each other		Diagonals bisect the angles
Diagonals are \cong	Diagonals are perpendicular		All angles are right
Opposite angles are \cong	Consecutive angles are supplementary	All sides are \cong	Diagonals bisect the angles
Opposite sides are		Opposite sides are \cong	

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1) A quadrilateral whose diagonals bisect each other and are perpendicular is a

a) Rhombus b) Rectangle c) Trapezoid d) Parallelogram

2) If ABCD is a square, $AB = 2x + 4$ and $CD = 3x - 5$, find BC.



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3) Rhombus ABCD has a diagonal BD with $m\angle C = 100$. What is $m\angle DBC$?

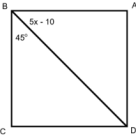
4) What is the length of the diagonal of a square whose side length is 12?

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5) In rhombus ABCD, the diagonals AC and BD intersect at E. If $AC = 18$ and $BD = 24$. What is the length of one side of rhombus ABCD?

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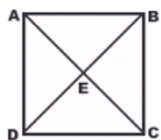
5) In the diagram below is square ABCD. If $\angle CBD = 45^\circ$ and $\angle ABD = 5x - 10$. Solve for x.



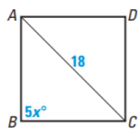
7) In rhombus ABCD, the measure, in inches, of AB is $3x + 2$ and BC is $x + 2$. Find the number of inches in the length of DC.

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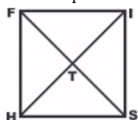
8) If ABCD is a square, $AB = 2x + 4$ and $CD = 3x - 5$, find BC.



9) In square ABCD, $AC = 18$ and $\angle B = 5x$. Solve for x.



10) FISH is a square with $IT = 8$. Find IH.



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