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Area of General Quadrilateral	
A. Choose the correct answer:	
1. The area of a general quadrila	teral can be found by dividing it into:
a) Two rectangles	b) Two triangles
c) Two trapeziums	d) Two circles
2. Area of a quadrilateral with d them 90° is:	iagonals 8 cm and 6 cm, and the angle between
a) 24 cm²	b) 48 cm²
c) 36 cm²	d) 12 cm²
3. In a general quadrilateral, if two sides are parallel, it becomes a:	
a) Rectangle	b) Parallelogram
c) Trapezium	d) Rhombus
4. If a quadrilateral is divided in the area of the quadrilateral is	to two triangles with areas 20 cm ² and 30 cm ² , s:
a) 30 cm²	b) 50 cm²
c) 60 cm²	d) 40 cm²
5. Area of a quadrilateral using diagonals are perpendicular?	diagonals is found using which formula when
a) $\frac{1}{2}$ × product of diagonals	b) $\frac{1}{3}$ × product of diagonals
c) 2 × product of diagonals	d) $\frac{1}{4}$ × product of diagonals
B. Write the Missing Terms to Complete the Sentences:	
1. A general quadrilateral can be	divided into two
 If the diagonals of a quadrilateral are perpendicular, the area is × product of diagonals 	
3. In a general quadrilateral, the area depends on the between the diagonals	
4. The unit of area of a quadrilateral is measured in units	
5. A special quadrilateral with bo	oth diagonals equal and perpendicular is called a

C. Figure out the answers to these questions:

1. Find the area of a quadrilateral whose diagonals are 12 cm and 9 cm and the angle between them is 90°

- 2. A quadrilateral is divided into two triangles with areas 24 cm² and 36 cm² Find the area of the quadrilateral
- 3. Find the area of a quadrilateral if its diagonals are 10 cm and 8 cm and the angle between them is 90°
- 4. A quadrilateral is divided into two triangles with bases 6 m and 8 m and heights5 m and 7 m Find the total area
- 5. Find the area of a quadrilateral whose diagonals are 15 cm and 10 cm and the angle between them is 90°
- **D.** Mark each sentence with a True (\checkmark) or False (X):
 - 1. In a quadrilateral with perpendicular diagonals, the area is $\frac{1}{2} \times$ product of diagonals. _____
 - 2. The diagonals must always be equal to apply the formula for area of a quadrilateral.
 - 3. A general quadrilateral can be divided into two triangles to find its area. _____
 - 4. The area of a rectangle is the same as the area of a general quadrilateral.
 - 5. If diagonals are not perpendicular, we need the angle between them to find the area. _____

E. Challenge yourself with these questions:

- 1. Find the area of a quadrilateral divided into two triangles with areas 35 \mbox{cm}^2 and 40 \mbox{cm}^2
- 2. Find the area of a quadrilateral whose diagonals are 14 cm and 6 cm and are perpendicular to each other
- 3. A quadrilateral is split into two right-angled triangles Find the total area if the areas of the triangles are 18 cm² and 27 cm²
- 4. Calculate the area of a quadrilateral with diagonals of 20 cm and 16 cm meeting at 90°
- 5. Find the area of a quadrilateral divided into two triangles with bases 9 m and 12 m and heights 6 m and 5 m