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| Squares | s and kectangles |
|----------------------------------|-----------------------------------------------|
| A. Choose the Correct Answer: | |
| 1. How many right angles does a | rectangle have? |
| a) 2 | b) 3 |
| c) 4 | d) 1 |
| 2. Which instrument is used to | draw accurate right angles while constructing |
| a) Compass | b) Protractor |
| c) Divider | d) Set square |
| 3. All sides of a square are: | |
| a) Unequal | b) Equal |
| c) Opposite sides are equal | d) Curved |
| 4. Which of the following has op | posite sides equal and all angles 90°? |
| a) Triangle | b) Rhombus |
| c) Rectangle | d) Trapezium |
| 5. The diagonals of a square: | |
| a) Are unequal | b) Are perpendicular and equal |
| c) Are only equal | d) Never meet |

B. Write the Missing Terms to Complete the Sentences:

- 1. A _____ has all four sides equal and all angles equal to 90°.
- 2. The opposite sides of a rectangle are _____.
- 3. The diagonals of a rectangle _____ each other.
- 4. A is both a rectangle and a rhombus.
- 5. To construct a square, we need a ruler and a _____.

C. Figure out the answers to these questions:

- 1. Construct a rectangle of length 6 cm and breadth 3 cm using only a ruler and set square. Show all steps.
- 2. Draw a square of side 5 cm using a compass and ruler. Mark all vertices clearly.
- 3. Draw a rectangle, then draw both its diagonals and name the point where they intersect.
- 4. Construct a square using only a compass and straightedge. Write the steps involved.

- 5. Draw a rectangle and mark its length, breadth, and diagonals. Label all the angles.
- 6. Measure and draw a square. Then, show how to divide it into two equal triangles.
- 7. Without using a protractor, construct a right angle and use it to draw a rectangle.
- 8. Construct a rectangle where the length is double the breadth. Write down the measurements used.

D. Mark each sentence with a True (\checkmark) or False (X):

- 1. All rectangles are squares.
- 2. A square has four equal sides and four right angles.
- 3. Diagonals of a rectangle are always perpendicular.
- 4. The length and breadth of a square are always different.
- 5. Opposite angles of a rectangle are equal.

E. Challenge yourself with these questions:

- 1. Draw a square of side 4 cm. Draw both diagonals and measure them.
- 2. Construct a rectangle with sides 6 cm and 4 cm. Mark its diagonals and label all corners.
- 3. Can a square also be called a rectangle? Draw both shapes and write one similarity and one difference.
- 4. Draw a square and divide it into four smaller equal squares.
- 5. Construct a rectangle using a compass and scale without using a set square.
- 6. Draw a rectangle and write its properties in the space below the diagram.