1. To estimate the area of an irregular shape, the chapter suggests using:
   A. A protractor
   B. A square grid
   C. A compass
   D. A divider (B)

Explanation : A square grid helps estimate the area by counting complete and partial squares.

2. While estimating an irregular area on a grid, complete squares are:
   A. Ignored
   B. Counted fully
   C. Counted as half
   D. Counted twice (B)

Explanation: Each complete square contributes one full square unit to the total area.

3. Partial squares are generally:
   A. Ignored completely
   B. Counted approximately
   C. Counted twice
   D. Treated as complete squares (B)

Explanation: Partial squares are estimated to obtain a close approximation of the area.

4. If an irregular figure covers 20 complete squares and about 8 half-squares, its estimated area is:
   A. 20 square units
   B. 24 square units
   C. 28 square units
   D. 36 square units (B)

Explanation: Eight half-squares equal four complete squares. Therefore, the estimated area is 20 + 4 = 24 square units.

5. The main purpose of using a square grid is to:
   A. Measure angles
   B. Estimate the area of irregular shapes
   C. Measure volume
   D. Find the perimeter only (B)

Explanation : Square grids provide an easy way to estimate areas that cannot be measured using simple formulas.

6. The estimated area becomes more accurate when:
   A. Larger grid squares are used
   B. Smaller grid squares are used
   C. The grid is removed
   D. Only complete squares are counted (B)

Explanation : Smaller grid squares reduce estimation errors and improve accuracy.

7. Area estimated using a grid is expressed in:
   A. Linear units B. Square units
   C. Cubic units D. Degrees (B)

Explanation : Area measures surface coverage and is always expressed in square units.

8. Which of the following is the best method to estimate the area of a leaf?
   A. Measuring only its length
   B. Measuring only its width
   C. Placing it on a square grid
   D. Measuring its perimeter (C)

Explanation : A square grid provides a practical way to estimate the area of irregular objects like leaves.

9. Which statement is correct about area estimation?
   A. It always gives the exact area.
   B. It gives an approximate value close to the actual area.
   C. It cannot be used for irregular figures.
   D. It depends only on the perimeter. (B)

Explanation : Grid estimation provides an approximate area, which is usually very close to the actual value.

10. The activities in Part 27 mainly help students:
    A. Solve algebraic equations
    B. Estimate the area of irregular regions using square grids
    C. Find the volume of solids
    D. Construct circles (B)

Explanation : This section develops practical skills for estimating the area of irregular shapes using square grids.

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