Class: 7
Chapter: Lines and Angles
Maximum Marks: 30
Time: 1 Hour


Section A: Multiple Choice Questions (MCQs) [1 mark each]

1. What is the measure of a right angle?
   a) 45°
   b) 90°
   c) 180°
   d) 60°
2. If two angles are supplementary and one angle is 70°, what is the measure of the other angle?
   a) 90°
   b) 100°
   c) 110°
   d) 180°
3. If two lines intersect, the vertically opposite angles are:
   a) Equal
   b) Supplementary
   c) Complementary
   d) Different
4. A linear pair of angles adds up to:
   a) 90°
   b) 180°
   c) 270°
   d) 360°
5. If $\angle A = 65°$ and $\angle B$ is complementary to $\angle A$, then $\angle B =$
   a) 25°
   b) 115°
   c) 35°
   d) 55°
6. Two lines that never meet are called:
   a) Intersecting lines
   b) Parallel lines
   c) Perpendicular lines
   d) Transversal
7. If a transversal cuts two parallel lines, which angles are equal?
   a) Alternate interior angles
   b) Corresponding angles
   c) Vertically opposite angles
   d) All of the above
8. The sum of all angles around a point is:
   a) 180°   b) 270°   c) 360°   d) 90°

9. Which of the following pairs of angles are always equal?
    a) Adjacent angles
    b) Corresponding angles (when a transversal intersects parallel lines)
    c) Linear pair
    d) None of these
10. If a transversal cuts two parallel lines, which of these angles are NOT necessarily equal?
    a) Alternate interior angles
    b) Vertically opposite angles
    c) Linear pair angles
    d) Corresponding angles

Section B: Long Answer Questions [4 marks each]

11. **Find the value of x in each of the following figures if l ∥ m.**
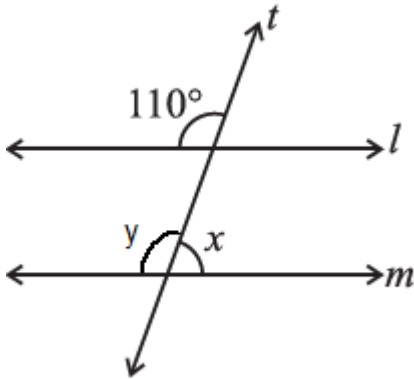
12. **In the given figure, p ∥ q. Find the unknown angles.**
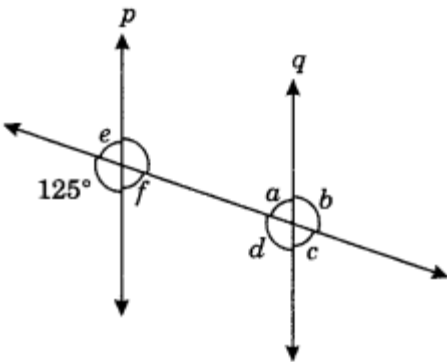
13. The sum of two angles is 130°, and one angle is twice the other. Find the angles.
14. If two supplementary angles are in the ratio 3:2, find the measure of each angle.
15. Identify which of the following pairs of angles are complementary and which are supplementary.

   A)65°, 115°   B)63°, 27°