Construction of Angle

1. **Choose the correct answer:**

   a. $37\frac{1}{2}$ is the half of angle bisector of _____ angle.

   i) 75° ☐   ii) 150° ☐   iii) 74° ☐   iv) 148° ☐

   b. Which of the following angle cannot be constructed with the help of a pair of compasses and ruler?

   i) 140° ☐   ii) 90° ☐   iii) 75° ☐   iv) 110° ☐

   c. Twice of 45° measures:

   i) 60° ☐   ii) 90° ☐   iii) 50° ☐   iv) 100° ☐

2. **Draw an angle of 105° using ruler and compass.**

3. **Draw an angle ABC = 75° with your protractor then construct an angle PQR equal to ABC with your compasss.**

4. **Draw an angle of measure 75°. Make a copy of it using only straight edge and compass.**

5. **Draw the following angles with protractor.**

   a. 48°   b. 55°   c. 125°   d. 165°

   Construct an angle equal to them using compasses.

6. **Draw∠ABC = 80° with the help of a protractor. Draw its angle bisector.**

7. **Draw ∠COD = 72° with your protractor. Using ruler and compass, draw the angle bisector of ∠COD.**

8. **Construct the following angles using compasses.**

   a. 60°   b. 30°   c. 120°

   d. 90°   e. 45°   f. 15°

9. **Draw ∠AOB of measure 95° and find its line of symmetry.**

10. **Using a protractor, draw an angle of 128°. With this angle as given, draw an angle of measure 96°.**

11. **Given ∠APB = 400, can you construct ∠APQ such that ∠APQ = 3 ∠APB? If yes, construct it.**

12. **Draw an angle of 80°, using a protractor and divide it into four equal parts, using ruler and compasses. Check your construction by measurement.**

13. **Draw a circle and cut it into eight equal parts. Find the angle of each equal part. Also, draw the resultant angle with the help of compasses and ruler.**