1. The perpendicular bisector of a line segment can be constructed using a:
a) Compass only
b) Ruler only
c) Compass and protractor
d) Compass and ruler
Answer: d) Compass and ruler
2. In constructing an angle of 60 degrees, the steps involved are:
a) Bisect an angle
b) Draw an arc with a known radius
c) Draw a line perpendicular to another line
d) Draw a line parallel to another line
Answer: b) Draw an arc with a known radius
3. The division of a line segment into four equal parts can be achieved by:
a) Drawing an angle of 90 degrees
b) Constructing an equilateral triangle
c) Drawing an arc with a known radius
d) Bisecting an angle
Answer: b) Constructing an equilateral triangle
4. A line segment of length 7 cm can be constructed using:
a) Compass only
b) Ruler only
c) Compass and protractor
d) Compass and ruler
Answer: d) Compass and ruler
5. To construct a line parallel to another line, we need:
a) A compass
b) A protractor

c) A ruler
d) A compass and ruler
Answer: d) A compass and ruler
6. To construct a triangle with given sides 4 cm, 5 cm, and 6 cm, we can use:
a) An equilateral triangle
b) An isosceles triangle
c) A right-angled triangle
d) None of the above
Answer: c) A right-angled triangle
7. To construct an angle of 120 degrees, we need:
a) A compass only
b) A protractor
c) A ruler
d) A compass and ruler
Answer: d) A compass and ruler
8. To bisect an angle, we use:
a) A compass only
b) A protractor
c) A ruler
d) A compass and ruler
Answer: d) A compass and ruler
9. To construct a line perpendicular to another line, we use:
a) A compass only
b) A protractor
c) A ruler
d) A compass and ruler
Answer: d) A compass and ruler
10. The construction of a line segment 2.5 times the length of another line segment can be done by:
a) Drawing an arc with a known radius

b) Bisecting an angle	
c) Drawing a line perpendicular to another line	
d) Drawing a line parallel to another line	
Answer: a) Drawing an arc with a known radius	
11. To construct an angle of 90 degrees, we need:	
a) A compass only	
b) A protractor	
c) A ruler	
d) A compass and ruler	
Answer: d) A compass and ruler	
12. In constructing a triangle, if we know the lengths of two sides and the included angle, we use:	
a) SSS Congruence Rule	
b) SAS Congruence Rule	
c) ASA Congruence Rule	
d) RHS Congruence Rule	
Answer: b) SAS Congruence Rule	
13. The perpendicular bisector of a line segment divides it into two parts that are:	
a) Congruent in length	
b) Equal in length	
c) Similar in length	
d) None of the above	
Answer: b) Equal in length	
14. To construct an angle of 45 degrees, we need to:	
a) Bisect an angle	
b) Draw an arc with a known radius	
c) Draw a line perpendicular to another line	
d) Draw a line parallel to another line	
Answer: a) Bisect an angle	
15. To construct a parallelogram, we need to know the lengths of:	

a) All four sides b) Two adjacent sides and an angle c) All four angles d) Only one side Answer: b) Two adjacent sides and an angle 16. The midpoint of a line segment can be constructed using: a) A compass only b) A protractor c) A ruler d) A compass and ruler Answer: d) A compass and ruler 17. To construct an angle of 30 degrees, we need to: a) Bisect an angle b) Draw an arc with a known radius c) Draw a line perpendicular to another line d) Draw a line parallel to another line Answer: b) Draw an arc with a known radius 18. The construction of an equilateral triangle can be done by: a) Bisecting an angle b) Drawing an arc with a known radius c) Drawing a line perpendicular to another line d) Drawing a line parallel to another line Answer: b) Drawing an arc with a known radius 19. To construct a line segment ¾ times the length of another line segment, we can use: a) An equilateral triangle b) An isosceles triangle c) A right-angled triangle d) None of the above Answer: c) A right-angled triangle

20. The construction of a line segment parallel to a given line segment can be done by:		
a) Drawing an arc with a known radius		
b) Bisecting an angle		
c) Drawing a line perpendicular to another line		
d) Drawing a line parallel to another line		
Answer: d) Drawing a line parallel to another line		
21. To construct a line segment 1/3 times the length of another line segment, we can use		
a) A compass only		
b) A ruler only		
c) A compass and protractor		
d) A compass and ruler		
Answer: d) A compass and ruler		
22. The construction of an isosceles triangle can be done by:		
a) Bisecting an angle		
b) Drawing an arc with a known radius		
c) Drawing a line perpendicular to another line		
d) Drawing a line parallel to another line		
Answer: b) Drawing an arc with a known radius		
23. In constructing a line perpendicular to a given line from a point outside it, we need:		
a) A compass only		
b) A protractor only		
c) A ruler only		
d) A compass and ruler		
Answer: d) A compass and ruler		
24. To construct a rectangle, we need to know the lengths of:		
a) All four sides		
b) Two adjacent sides and an angle		
c) All four angles		
d) Only one side		

Answer: b) Two adjacent sides and an angle

- 25. The construction of a line segment 5 times the length of another line segment can be done by:
 - a) Drawing an arc with a known radius
 - b) Bisecting an angle
 - c) Drawing a line perpendicular to another line
 - d) Drawing a line parallel to another line

Answer: a) Drawing an arc with a known radius

- 26. To construct a square, we need to know the lengths of:
 - a) All four sides
 - b) Two adjacent sides and an angle
 - c) All four angles
 - d) Only one side

Answer: a) All four sides

- 27. The construction of an angle of 135 degrees can be achieved by:
 - a) Bisecting an angle
 - b) Drawing an arc with a known radius
 - c) Drawing a line perpendicular to another line
 - d) Drawing a line parallel to another line

Answer: b) Drawing an arc with a known radius

- 28. In constructing a triangle, if we know the lengths of all three sides, we use:
 - a) SSS Congruence Rule
 - b) SAS Congruence Rule
 - c) ASA Congruence Rule
 - d) RHS Congruence Rule

Answer: a) SSS Congruence Rule

- 29. To construct a line segment ½ times the length of another line segment, we can use:
 - a) An equilateral triangle
 - b) An isosceles triangle
 - c) A right-angled triangle

d) None of the above

Answer: a) An equilateral triangle

- 30. The construction of an angle of 75 degrees can be achieved by:
 - a) Bisecting an angle
 - b) Drawing an arc with a known radius
 - c) Drawing a line perpendicular to another line
 - d) Drawing a line parallel to another line

Answer: b) Drawing an arc with a known radius

- 31. To construct an angle of 150 degrees, we need:
 - a) A compass only
 - b) A protractor only
 - c) A ruler only
 - d) A compass and ruler

Answer: d) A compass and ruler

- 32. In constructing a triangle, if we know the lengths of two sides and the angle between them, we use:
 - a) SSS Congruence Rule
 - b) SAS Congruence Rule
 - c) ASA Congruence Rule
 - d) RHS Congruence Rule

Answer: c) ASA Congruence Rule

- 33. The construction of a line segment ¼ times the length of another line segment can be done by:
 - a) Drawing an arc with a known radius
 - b) Bisecting an angle
 - c) Drawing a line perpendicular to another line
 - d) Drawing a line parallel to another line

Answer: c) Drawing a line perpendicular to another line

- 34. To construct a rhombus, we need to know the lengths of:
 - a) All four sides
 - b) Two adjacent sides and an angle

- c) All four angles
- d) Only one side

Answer: a) All four sides

- 35. The construction of an angle of 105 degrees can be achieved by:
 - a) Bisecting an angle
 - b) Drawing an arc with a known radius
 - c) Drawing a line perpendicular to another line
 - d) Drawing a line parallel to another line

Answer: b) Drawing an arc with a known radius

- 36. To construct a line segment 3/5 times the length of another line segment, we can use:
 - a) An equilateral triangle
 - b) An isosceles triangle
 - c) A right-angled triangle
 - d) None of the above

Answer: a) An equilateral triangle

- 37. The construction of an angle of 160 degrees can be achieved by:
 - a) Bisecting an angle
 - b) Drawing an arc with a known radius
 - c) Drawing a line perpendicular to another line
 - d) Drawing a line parallel to another line

Answer: b) Drawing an arc with a known radius

- 38. In constructing a triangle, if we know the lengths of one side and two angles, we use:
 - a) SSS Congruence Rule
 - b) SAS Congruence Rule
 - c) ASA Congruence Rule
 - d) RHS Congruence Rule

Answer: b) SAS Congruence Rule

- 39. To construct a line segment 2/3 times the length of another line segment, we can use:
 - a) An equilateral triangle

- b) An isosceles triangle
- c) A right-angled triangle
- d) None of the above

Answer: b) An isosceles triangle

- 40. The construction of an angle of 165 degrees can be achieved by:
 - a) Bisecting an angle
 - b) Drawing an arc with a known radius
 - c) Drawing a line perpendicular to another line
 - d) Drawing a line parallel to another line

Answer: b) Drawing an arc with a known radius

- 41. The construction of a line segment 2 times the length of another line segment can be done by:
 - a) Drawing an arc with a known radius
 - b) Bisecting an angle
 - c) Drawing a line perpendicular to another line
 - d) Drawing a line parallel to another line

Answer: a) Drawing an arc with a known radius

- 42. To construct a line segment 3/7 times the length of another line segment, we can use:
 - a) An equilateral triangle
 - b) An isosceles triangle
 - c) A right-angled triangle
 - d) None of the above

Answer: c) A right-angled triangle

- 43. The construction of an angle of 170 degrees can be achieved by:
 - a) Bisecting an angle
 - b) Drawing an arc with a known radius
 - c) Drawing a line perpendicular to another line
 - d) Drawing a line parallel to another line

Answer: b) Drawing an arc with a known radius

44. In constructing a triangle, if we know the lengths of one side and the two adjacent angles, we use:

a) SSS Congruence Rule
b) SAS Congruence Rule
c) ASA Congruence Rule
d) RHS Congruence Rule
Answer: c) ASA Congruence Rule
45. To construct a line segment 4/5 times the length of another line segment, we can use:
a) An equilateral triangle
b) An isosceles triangle
c) A right-angled triangle
d) None of the above
Answer: d) None of the above
46. The construction of an angle of 175 degrees can be achieved by:
a) Bisecting an angle
b) Drawing an arc with a known radius
c) Drawing a line perpendicular to another line
d) Drawing a line parallel to another line
Answer: b) Drawing an arc with a known radius
47. To construct a line segment 1/8 times the length of another line segment, we can use:
a) A compass only
b) A ruler only
c) A compass and protractor
d) A compass and ruler
Answer: d) A compass and ruler
48. In constructing a triangle, if we know the lengths of one side and its opposite angle, we use:
a) SSS Congruence Rule
b) SAS Congruence Rule
c) ASA Congruence Rule
d) RHS Congruence Rule
Answer: b) SAS Congruence Rule

- 49. To construct a line segment 3/9 times the length of another line segment, we can use:
 - a) An equilateral triangle
 - b) An isosceles triangle
 - c) A right-angled triangle
 - d) None of the above

Answer: c) A right-angled triangle

- 50. The construction of an angle of 180 degrees can be achieved by:
 - a) Bisecting an angle
 - b) Drawing an arc with a known radius
 - c) Drawing a line perpendicular to another line
 - d) Drawing a line parallel to another line

Answer: c) Drawing a line perpendicular to another line