BALABHADRA SKILL DEVELOPMENT ACADEMY
MATHS QUESTION BANK - 4

Time: 1 Hour Full marks: 41 Pass marks: 32

1. A line has no _____ .
2. A line has no _____.
3. Triangles on the same base and between the same parallels are _____.
4. Two angles are said to be _____, if the sum of their measures is 90^0.
5. Two complementary angles are called _____.
6. Two adjacent angles are said to form a _____, if their non-common arms are two opposite rays.
7. If a triangles and a parallelogram are on the same base and between the same parallels, then the area of the triangles equal to _____ of the parallelogram.
8. When a transversal cuts two parallel lines; Pairs of corresponding angles (<1,<5), (<4,<8), (<2,<6) and (<3,<7) are ____.
9. When a transversal cuts two parallel lines; alternate interior angles are ____.
10. When a transversal cuts two parallel lines; sum of consecutive interior angles is _____.
11. When a transversal cuts two parallel lines; vertically opposite angles are ____.
12. The medians of a triangle are _____ i.e., they intersect each other at _____.
13. Centroid divides the median in the ratio ____.
14. The ____ of a triangle corresponding to any side is the length of perpendicular drawn from the opposite vertex to that side. The side on which the perpendicular is being drawn is called _____.
15. A triangle has _____ altitudes.
16. The altitudes of a triangle are _____.
17. A ____ is the longest chord of a circle.
18. Circumcentre is equidistant from ____.
19. If two angles and the included side of one triangle are equal to the corresponding two angles and the included side of the other triangle, then the two triangles are _____.
20. If two angles and any side of a triangle are equal to the corresponding angles and side of another triangle, then the two triangles are _____.
21. If the three sides of one triangle are equal to the corresponding three sides of another triangle, then two triangles are _____.
22. Two right angled triangles are congruent, if one side and the hypotenuse of one are respectively equal to the _____ and the _____ of the other.
23. Two triangles are said to be similar to each other, if their corresponding angles are ____ and their corresponding sides are _____.
24. If a line is drawn parallel to one side of a triangle to intersect the other two sides at distinct points, then the other two sides are divided in the ____ and ____.
25. If in two triangles, the corresponding angles are equal, then their corresponding sides _____ and hence the triangles are _____.
26. If two angles of one triangle are respectively equal to the corresponding two angles of another triangle, then the two triangles are _____.

27. If one angle of a triangle is equal to the corresponding angle of the other triangle and the sides including these angles are proportional, then the two triangles are _____.
28. If a perpendicular is drawn from the vertex of the right angle of a right angled triangle to the hypotenuse, then the triangles on both sides of the perpendicular are _____ and _____.
29. If the two non-parallel sides of a trapezium are equal, then it is called an _____ trapezium.
30. The line segment joining the mid-points of non-parallel sides of a trapezium is called its _____.
31. The sum of all the four angles of a quadrilateral is _____.
32. In a parallelogram, the opposite sides are _____.
33. In a parallelogram, the opposite angles are _____.
34. In a parallelogram, each diagonal _____ the angles through which it passes.
35. In a parallelogram, the diagonals _____ each other.
36. The diagonals of a rectangle are _____.
37. The diagonals of a rhombus are _____ to each other.
38. The diagonals of a square are _____ and _____ to each other.
39. If there are three parallel lines and the intercepts made by them on one transversal are equal then the intercepts made by them on any other transversal are also _____.
40. A parallelogram and a rectangle on the same base and between the same parallels are _____.
41. If the corresponding sides of two triangles are proportional, then their corresponding angles are _____ and hence the two triangles are _____.

BALABHADRA SKILL DEVELOPMENT ACADEMY
MATHS QUESTION BANK – 4 (ANSWER)

1. end point
2. definite length
3. equal in area
4. complementary
5. the complement of each other
6. linear pair of angles
7. half the area
8. equal
9. equal
10. 180
11. equal
12. concurrent, the same point
13. 2:1
14. altitude, base
15. three
16. concurrent
17. diameter
18. three vertices of triangle
19. congruent
20. congruent
21. congruent
22. corresponding side, hypotenuse
23. equal, proportional
24. same ratio and vice-versa
25. proportional, similar
26. similar
27. similar
28. similar to the original triangle, also to each other
29. isosceles
30. median
31. 360^0
32. equal
33. equal
34. bisects
35. bisects
36. equal
37. perpendicular
38. equal, perpendicular
39. equal
40. equal in area
41. Equal, Similar.