Geometry knowledge survey	
Surname, Name	
Date	

Questions

I. How would you characterize your level of geometric knowledge?

II. What is your previous geometric education?

III. What 3D software do you know and master?

Tasks

Work out the following problems based only on your current knowledge.
You can sketch, construct, write definition, describe geometric properties, analytic expression, etc.

1. Parallel straight lines
2. Perpendicular straight lines
3. Intersecting straight lines
4. Skew straight lines
5. Centre of straight line segment
6. Angle bisector
7. Acute angle
8. Obtuse angle
9. Straight angle
10. Reflex angle
11. Isosceles triangle
12. Equilateral triangle
13. Scalene triangle
14. Right-angled triangle
15. Triangle median
16. Triangle centroid
17. Triangle altitude (height)
18. Triangle orthocentre
19. Quadrilateral
20. Square
21. Rectangle
22. Parallelogram
23. Trapezium
24. Regular hexagon
25. Circle
26. Tangent line to the circle from the point lying outside the circle
27. Thales's theorem
28. Tangent line to a circle from point outside the circle
29. Circle inscribed into a triangle
30. Circle circumscribed around a triangle
31. Axial symmetry
32. Central symmetry
33. Ellipse
34. Parabola
35. Hyperbola
36. Cube
37. Sphere
38. Cylinder
39. Cone
40. Pyramid
41. Truncated cone
42. Truncated pyramid
43. Torus