Task 14 Pairwork

The faces of the dodecahedron are called _____.

Student A

1) Pentagon as dictated by Student B:

2) Dictate the following instructions to Student A.

1. Draw a circle of any desired radius, and a diameter through the centre.
2. Name the centre O, and the right end of the diameter P_1.
3. Construct the diameter perpendicular to the original diameter by finding the perpendicular bisector.
4. Name the upper endpoint of this perpendicular diameter B.
5. Find the midpoint of [OB] and name it D.
6. Draw the segment [DP_1].
7. Bisect the angle $\angle ODP_1$, naming N_2 the intersection with [OP1].
8. Draw (N_2P_2), parallel to (OB), with P_2 intersect of the line with the circle.
9. The first two points of the pentagon are P_1 and P_2.
10. Deduce the rest of the vertices of the pentagon.

3) Draw a pentagon inscribed in a circle of radius 12 cm (use the coloured strong card).