

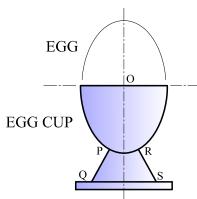
Question 2. The egg cup shown consists of a semi-ellipse mounted on a base. Lines PQ and RS are two normals at points P and R respectively on the semi-ellipse.

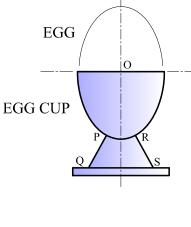
a. Using a major axis of 140mm and a minor axis of 90mm, construct the semi-ellipse on the given start lines.

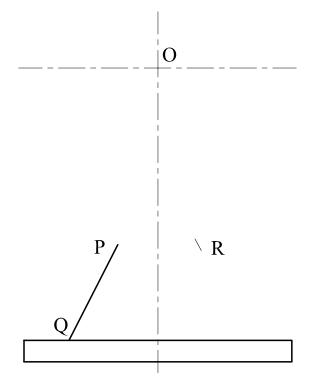
Construct a normal to the ellipse at point R to complete the drawing.

Note: Do not draw the egg.

14 marks



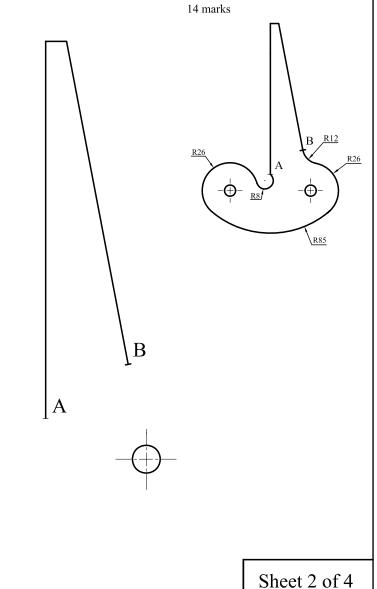




Question 3. The tool shown, called a centre-square, is used to find the centre of round bars.

Using the given start lines and centres, draw the centre-square showing clearly the constructions required to locate the centre of the arcs and the points of tangencies.

Note: B is a point of tangency.



■ Track 2 FORM 3 (3rd Year) 2011 GRAPHICAL COMMUNICATION

Educational Assessment Unit

Name:

Class:

120 Question 4. Two orthographic views of Question 5. Health and safety signs can be separated into four categories namely prohibition, hazards, a wooden kennel are given. mandatory and safe condition. Colours and shapes distinguish between the different categories. R25 On the given start lines and using the Three different types of safety signs are given below. given dimensions, draw an isometric In the space provided: 50 view of the kennel. a) mark the right category and underline the correct message. b) colour the signs according to the regulations set on ISO 7010. Notes: 80 *Place corner X in the lowermost position.* 14 marks Material thickness is 10mm throughout. Mark the right category and colour the sign 14 marks ☐ Prohibition ☐ Mandatory ☐ Hazard Warning ☐ Safe Condition Underline the correct message. a) Danger of falling. b) Abseiling activity Mark the right category and colour the sign 0 ☐ Prohibition ☐ Hazard Warning 0 ☐ Safe Condition Underline the correct message. a) Wash your hands 0 b) Entry is prohibited Mark the right category and colour the sign ☐ Prohibition ☐ Hazard Warning ☐ Safe Condition Underline the correct message. a) Wear head protection Sheet 3 of 4 b) Only white helmets are allowed ■ Track 2 FORM 3 (3rd Year) 2011 **Educational Assessment Unit** Class: Name: GRAPHICAL COMMUNICATION

Question 6. The table shows the years in which five Italian football teams won the annual cup competition known as *Coppa Italia*.

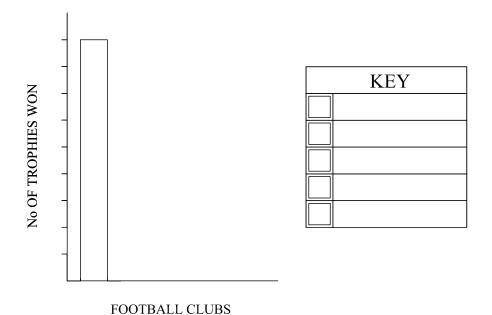
Complete the vertical **bar graph** to show the number of times that each club won the *Coppa Italia* trophy.

The first bar (that of Juventus) is already drawn.

Add colour and notation making use of the key.

12 marks

JUVENTUS	1938	1942	1959	1960	1965	1979	1983	1990	1995
ROMA	1964	1969	1980	1981	1984	1986	1991	2007	2008
INTER	1939	1978	1982	2005	2006	2010			
FIORENTINA	1940	1961	1966	1975	1996	2001			
MILAN	1967	1972	1973	1977	2003				

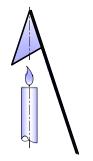


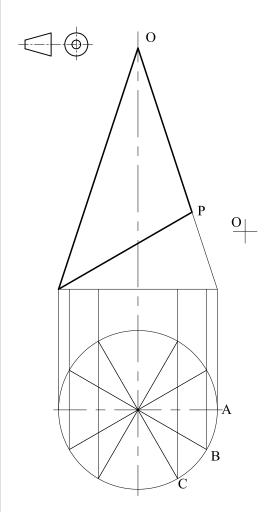
Question 7. A thin sheet metal candle extinguisher is shown on the right. The upper part of the extinguisher consists of a right cone cut at the base.

Using the given front elevation and the incomplete plan, construct the development of the given cone, starting from the given apex O.

- Note: a) place the seam on OP
 - b) do not complete the plan
 - c) some construction lines are already drawn.

14 marks





Sheet 4 of 4

Track 2 FORM 3 (3rd Year) 2011 GRAPHICAL COMMUNICATION

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