Practice edition - answers

Worked answers / Keep separate from the student sheet.

1. Sketch a hollow-cylinder section of outer radius 37 and inner radius 13 mm. Hatch material only; find section area.

Area = pi(37^2-13^2) = 3769.91118 mm^2. Leave the circular opening unhatched.

2. Sketch a hollow-cylinder section of outer radius 39 and inner radius 14 mm. Hatch material only; find section area.

Area = pi(39^2-14^2) = 4162.61027 mm^2. Leave the circular opening unhatched.

3. Sketch a hollow-cylinder section of outer radius 41 and inner radius 15 mm. Hatch material only; find section area.

Area = pi(41^2-15^2) = 4574.1589 mm^2. Leave the circular opening unhatched.

4. Sketch a hollow-cylinder section of outer radius 43 and inner radius 16 mm. Hatch material only; find section area.

Area = pi(43^2-16^2) = 5004.5571 mm^2. Leave the circular opening unhatched.

5. Sketch a hollow-cylinder section of outer radius 45 and inner radius 17 mm. Hatch material only; find section area.

Area = pi(45^2-17^2) = 5453.80485 mm^2. Leave the circular opening unhatched.

6. Sketch a hollow-cylinder section of outer radius 47 and inner radius 18 mm. Hatch material only; find section area.

Area = pi(47^2-18^2) = 5921.90215 mm^2. Leave the circular opening unhatched.

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