Ws 131

1.

Sketch a circle with each radius.

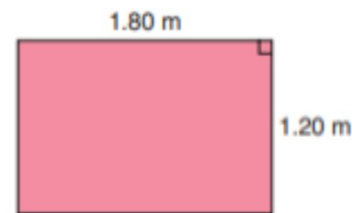**a)** 4 cm   **b)** 8 cm   c) 7cm

Label the radius, then find the diameter.

2) **a)** A circle has diameter 3.8 cm. What is the radius?   **b)** A circle has radius 7.5 cm. What is the diameter?

3) A circular tabletop is to be cut from a rectangular piece
of wood that measures 1.20 m by 1.80 m.
What is the radius of the largest tabletop that could be cut?
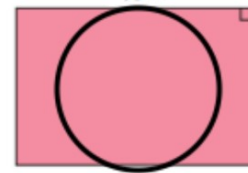Justify your answer. Include a sketch.

1.80 m

1.20 m

4) A glass has a circular base with radius 3.5 cm.
A rectangular tray has dimensions 40 cm by 25 cm.
How many glasses will fit on the tray?
What assumptions did you make?

5) Fill in the chart

	Radius	Diameter
a)		4.6 cm
b)	7.5 cm	
c)	21 cm	
d)	80 cm	
e)		23 cm

6) A circular tabletop is to be cut from a rectangular piece of wood that measures 2.4 m by 1.6 m. What is the radius of the largest tabletop that could be cut? Justify your answer. Include a sketch

7) A glass has a circular base with radius 6 cm.

A rectangular tray has dimensions 60 cm by 80 cm.

How many glasses will fit on the tray? (Show work)