 a) The diagram shows Jane's lawn. It is in the shape of a square of side 36m and three semi-circles. She is going to spread fertiliser on the lawn at a rate of 30g per square metre. The fertiliser is only sold in 10kg bags costing £15.80 each. Calculate the cost of buying the bags of fertiliser for her lawn. 		 b) The diagram shows Kay's lawn. It is in the shape of a square of side 30m and two semi-circles. She is going to spread fertiliser on the lawn at a rate of 25g per square metre. The fertiliser is only sold in 12kg bags costing £18.50 each. Calculate the cost of buying the bags of fertiliser for her lawn. 	
What is the area of the lawn?	$36 \times 36 = 1296$ $\frac{\pi \times 18^2}{2} \times 3 = 1526.8140296 \dots$ $1296 + 1526.8140296 \dots = 2822.8140296 \dots m^2$	What is the area of the lawn?	$30 \times 30 = 900$ $\frac{\pi \times 15^2}{2} \times 2 = 706.8583470 \dots$ $900 + 706.8583470 \dots = 1606.8583470 \dots m^2$
How much fertiliser is needed?	$2822.814 \times 30 = 84684.42g$ $84684.42 \div 1000 = 84.68424kg$	How much fertiliser is needed?	$1606.858 \times 25 = 40171.45g$ $40171.45 \div 1000 = 40.17145kg$
How many bags of fertiliser does she need to buy?	84684.42 ÷ 10 = 8.4684442 She needs to buy 9 bags	How many bags of fertiliser does she need to buy?	
How much does the fertiliser cost?	$9 \times \pounds 15.80 = \pounds 142.20$	How much does the fertiliser cost?	
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