

Circles L2 Mark Scheme		
1(a)	Diameter	[1]
1(b)	Radius	[1]
1(c)	Centre	[1]
1(d)	Circumference	[1]
2(a)	$1 \times 2 = 2 \text{ m}$	[1]
2(b)	$10 \div 2 = 5 \text{ cm}$	[1]
2(c)	$2 \times 3 \times 3.14$	[1]
	$= 18.84 \text{ cm}$	[1]
2(d)	28×3.14	[1]
	$= 87.92 \text{ cm}$	[1]
2(e)	3.14×0.5^2	[1]
	$= 0.785 \text{ m}^2$	[1]
2(f)	$2 \div 2 = 1 \text{ km radius}$ 3.14×1^2	[1]
	$= 3.14 \text{ km}^2$	[1]
2(g)	$314 \div 3.14 \div 2$	[1]
	$= 50 \text{ m}$	[1]
2(h)	$628 \div 3.14 \div 2 = 100 \text{ mm radius}$	[1]
	3.14×100^2	[1]
	$= 31400 \text{ mm}^2$	[1]
3(a)	$2 \times 3.14 \times 5$	[1]
	$= 31.4 \text{ cm}$	[1]
3(b)	1×3.14	[1]
	$= 3.14 \text{ cm}$	[1]
3(c)	88×3.14	[1]
	$= 276.32 \text{ mm}$	[1]
3(d)	$2 \times 120 \times 3.14$	[1]
	$= 753.6 \text{ m}$	[1]

4(a)	$3.14 \times (12 \div 2)^2$	[1]
	$= 113.04 \text{ cm}^2$	[1]
4(b)	3.14×9^2	[1]
	$= 254.34 \text{ mm}^2$	[1]
4(c)	3.14×126^2	[1]
	$= 49850.64 \text{ m}^2$	[1]
4(d)	$3.14 \times (99 \div 2)^2$	[1]
	$= 7693.785 \text{ mm}^2$	[1]
5(a)	3.14×90^2	[1]
	$= 25434$	[1]
	$25434 \div 250 (= 101.736)$	[1]
	101 sheep	[1]
5(b)	$25434 \div 350 (= 72.67)$	[1]
	72 cows	[1]
6(a)	$3 \div 2 (= 1.5)$	[1]
	$3.14 \times 1.5^2 (= 7.065)$	[1]
	7.065 m^2	[1]
6(b)	$3 \times 3 (= 9)$	[1]
	9 m^2	[1]
6(c)	$9 - 7.065 (= 1.935)$	[1]
	1.935 m^2	[1]