

CYLINDERS

Pearson Edexcel - Tuesday 11 June 2019 - Paper 3 (Calculator) Foundation Tier

1.

29	No Supported	P1	for finding the area of a circle eg $\pi \times 0.8^2 (= 2.01\dots)$	Must be area of circle and not part of a volume, eg $\pi r^2 h$ May be seen as $2\pi r^2$
		P1	for finding the curved surface area eg $2\pi \times 0.8 \times 1.8 (= 9.047\dots)$	May be seen from $2\pi r h$ or from $\pi d h$
		P1	for use of the coverage information with an area eg "2.01..." $\div 5 (= 0.402\dots)$ or "4.02..." $\div 5 (= 0.804\dots)$ or "9.047..." $\div 5 (= 1.8095\dots)$ or "11.058" $\div 5 (= 2.2116\dots)$ or "13.069..." $\div 5 (= 2.6138\dots)$ OR for process to find total coverage for comparison eg $5 \times 7 (= 35)$	Accept numbers without working written to no less than 2dp Do not award if a volume has been used as part of the calculation. An independent mark for 5×7
		P1	(dep P1) for finding total surface area for 3 tanks eg [total surface area] $\times 3 (= 39.2\dots)$ OR for complete process to find the number of tins needed for total area of 3 tanks eg "13.069" $\dots \times 3 \div 5 (= 7.84\dots)$ OR for complete process to find coverage needed from each tin eg "13.069" $\dots \times 3 \div 7 (= 5.6\dots)$	[total surface area] must come from the addition of two attempts at area, but not from volume.
		C1	for conclusion "No" supported by accurate figures eg 8 tins or $7.84 (> 7)$ or $39.2 > 35$ or $5.6 (> 5)$	Clear statement that there is not enough paint supported by correct figures for comparison. NB: $2.6 \times 3 = 9$ tins needed is inaccurate 8 or 7.84 tins is sufficient without restating the 7, 5.6 m^2 is sufficient without restating the 5 but 39.2 and 35 are needed for comparison. A statement of "No, 8 tins" alone gets 0 marks without supporting working.

OCR Tuesday 6 November 2018 – Morning (Calculator) Foundation Tier

2.

2	(a)	Cylinder	1		
	(b)	90° symbol marked at BCD cao	1		Accept 90° with arc
3		364.8[0]	2	M1 for 320×1.14	