## **Daily Question**

## Day 4 Pure Mathematics - Mark Scheme

## Question 1

(a) Usually answered in radians: Uses 
$$BCD = 3.5 \times (angle)$$
,  $= 3.5 \times 1.77 = 6.195$  (m) (accept M1 A1 (2)

(b) Area =  $\frac{1}{2}(3.5)^2 \times 1.77 = 10.84$  (m²)

(c) Area of triangle =  $\frac{1}{2} \times 3.7 \times 3.5 \times \sin(angle)$ ,  $= \frac{1}{2} \times 3.7 \times 3.5 \times \sin(\frac{\pi}{2} - \frac{1.77}{2})$  (=awrt 4.1) M1, A1 Total area = "10.84"+2×"4.101" M1 A1cao (4) [8]

## Question 2

