a.

$$\frac{g}{2} \cancel{(a+d)^2}$$

$$\cancel{T = \frac{}{2}(2+32)d} \quad \frac{}{2}$$

$a = 2m$

$L = 32.m \qquad 21 \text{ times}$

$D = 1.5m$

first throw = 2 metres

last throw = 32 metres

Distance each throw = 1.5

She threw the stick 21 times to reach 32 metres.

ii The dog ran

$$= \frac{21}{2} (a+l)d \qquad a = 2$$

$$= \frac{21}{2} \times [2+32] \times 1.5 \qquad L = 32$$

$$= \frac{21}{2} [34 \times 1.5] \qquad D = 1.5$$

$$= 535.5 \text{ metres}$$