a) $2m, 3.5, 5 ----- 32m$

$T_n = a + (n-1)d$

$32 = 2 + (n-1)1.5$

$32 = 2 + 1.5n - 1.5$

$32 = 1.5n + 0.5$

$n = 21$

She threw it 21 times.

$S_n = \frac{n}{2}(a + \alpha)$

$S_{21} = \frac{21}{2}(2 + 32)$

$\quad 10.5(34)$

$S_{21} = 357m$

$\quad 357 \times 2 \ (\text{The return})$

$= 714m.$

b)

$$l = r\theta$$

$$l = 38$$

$$r = 20$$

$$38 = 20\theta$$

$$\theta = 1.54'$$

$$\theta = 2°$$

c) $(x-h)^2 = 4a(y-k)$ vertex $= (h, k)$

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