Start here for Question Number: 4

al 1km + 1.750 + 2.5 + ....

Tn = a+(n-1)d.

a = 1

d=0.750

Tg= 1+(-0-750-1) × 0-750

Ta=7

in the 91h week Sysaman runs

Tem

10= 1+ (n-1) x0.750

10 = 1 + 0.750n - 0.750

10 = 1 + 0.750n

9.75 = 0.75n

N = 13

: Susannah first vens 10km in

the 13th week

Sy = 2 (1+ Sn = 2 (2a + (n-1) d)

526= 26 (2×1 - (26-1)0.75)

T76=

Sz6= 269.73 km

47-709

$$=\frac{1}{2}e^{4}+e^{-2}-\frac{1}{2}e^{2}-e^{-1}$$

$$= \left(\frac{1}{2}e^4 + \frac{1}{e^2} - \frac{1}{2}e^2 - \frac{1}{e'}\right)$$
 units<sup>2</sup>.

$$\frac{e^{4} + \frac{1}{e^{2}} - e^{2}}{2} = \frac{1}{e^{1}}$$

Additional writing space on back page.

4 (avanuel centres

1 strawberry centres.

or P(caramel and earamel)

$$= \left(\frac{4}{12} \times \frac{3}{11}\right) + \left(\frac{4}{12} \times \frac{3}{11}\right) + \left(\frac{4}{12} \times \frac{3}{11}\right)$$

P(atterent centres) = 1 - P(some centres)

$$\frac{d|f(x) = 1 + e^{x}}{f(-x) = 1 + e^{-x}} \frac{(1 + e^{-x}) = (1 + e^{x}) + (1 + e^{-x})}{(1 + e^{-x}) + (1 + e^{-x})} = \frac{1 + e^{-x}}{(1 + e^{-x}) + (1 + e^$$

You may ask for an extra Writing Booklet if you need more space to answer question 4.