Student 4: High Achieved

NZ@A Intended for teacher use only

Weekly rent for industrial – 15 floors

Inside offices $16 \times 65 = \$1040 \text{ per floor} = \$15600 \text{ inside offices for entire building}$

Outside offices first floor = $28 \times 103 = 2884

Entire building (outside offices)

$$s_n = \frac{n}{2}(2a + (n-1)d) \times 28$$

$$=7.5(206+14\times3)\times28$$

= \$52080 a week outside offices

Entire building a week = \$67680 (15 floors)

Weekly rent for a city centre building 15 floors

Inside offices $8 \times 102 = 816 per floor

 $816 \times 15 = 12240 entire building (inside)

Outside offices

first floor = 24 x 120 = 2880 per week

All outside offices in the building

$$s_n = \left(\frac{a(1-r^n)}{(1-r)}\right) \times 24 = \left(\frac{120(1-1.05^{15})}{(1-1.05)}\right) \times 24$$
 =\$62146.32

Entire building per week 15 floors = \$74386

Two 15 floor buildings

Industrial = \$67680 a week City centre = \$74386 per week

Add one floor to industrial

$$t_n = a + (n-1)d = 103 + 15 \times 3 = 148$$

67680+148 x 28 +15600 = \$87424 per week for 16 floor building rent (indus)

Weekly floor rent for any floor in industrial

$$(103 + (floor - 1) \times 3) \times 28 + 1040$$

Weekly floor rent for any floor in city centre

$$(120 \times 1.05^{floor-1}) \times 24 + 816$$