

Ex 2: An observer measures the outside temp every hour from noon until midnight recording the temps in the table:

Time	N	1	2	3	4	5	6	7	8	9	10	11	M
Temp	63	65	66	68	70	69	68	68	65	64	62	58	55

What was the average temp for the 12 hour period?

$$\text{av}(f) = \frac{1}{b-a} \int_a^b f(x) dx$$

$$T = \frac{1}{2} [63 + 2(65 + 66 + 68 + \dots + 58) + 55] = 782$$

$$\text{avg} = \frac{1}{12} (782) = 65.17 \quad \text{Avg temp } 65^\circ$$