

## Particle size of coated powders

<u>Obs</u>	<u>Size</u>
1	57.8
2	58.3
3	50.3
4	38.5
5	47.9
6	157.0
7	38.6
8	140.2
9	39.3
10	138.7
11	49.2
12	139.7
13	48.3
14	59.2
15	49.7

# Particle size of coated powders

Mean = 74    n = 15

$$S^2 = \frac{\sum (x - \mu)^2}{n-1}$$

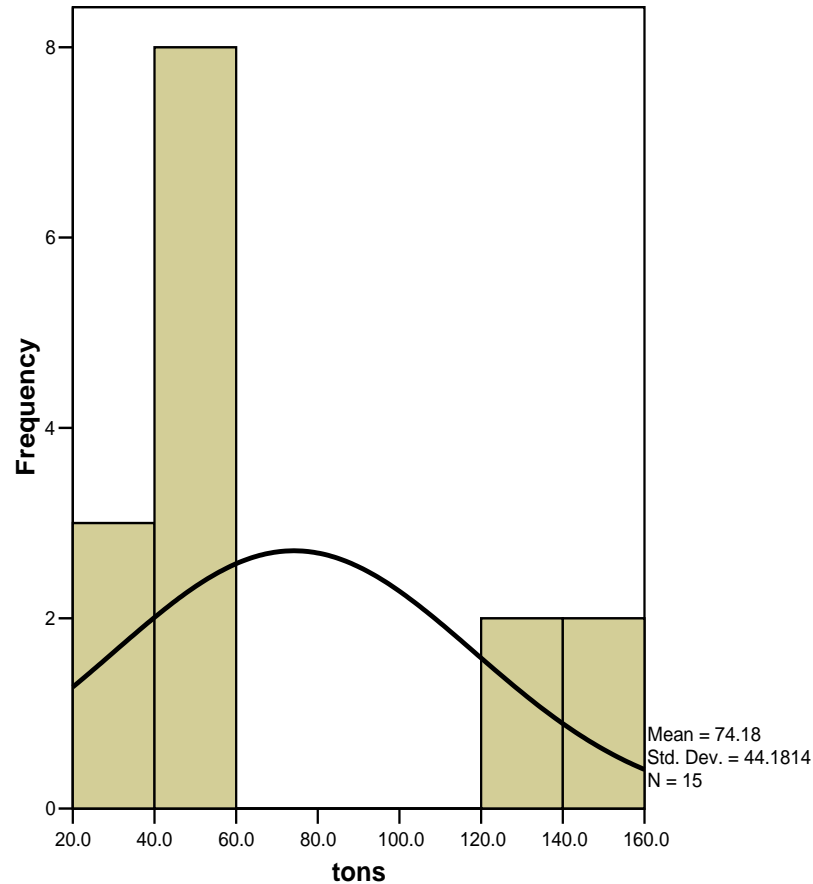
$$\dashrightarrow \sum x^2 - \frac{(\sum x)^2}{n}$$

# Particle size of coated powders

Obs	<u>Size</u>	<u>mean</u>	<u>Size-mean</u>	<u>(Size-mean)<sup>2</sup></u>
1	57.8	74.18	-16.38	268.30
2	58.3	74.18	-15.88	252.17
3	50.3	74.18	-23.88	570.25
4	38.5	74.18	-35.68	1273.06
5	47.9	74.18	-26.28	690.64
6	157.0	74.18	82.82	6859.15
7	38.6	74.18	-35.58	1265.94
8	140.2	74.18	66.02	4358.64
9	39.3	74.18	-34.88	1216.61
10	138.7	74.18	64.52	4162.83
11	49.2	74.18	-24.98	624.00
12	139.7	74.18	65.52	4292.87
13	48.3	74.18	-25.88	669.77
14	59.2	74.18	-14.98	224.40
15	49.7	74.18	-24.48	599.27
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	1112.7		0.00	27327.92

# Particle size of coated powders

Mean = 74    SD = 44

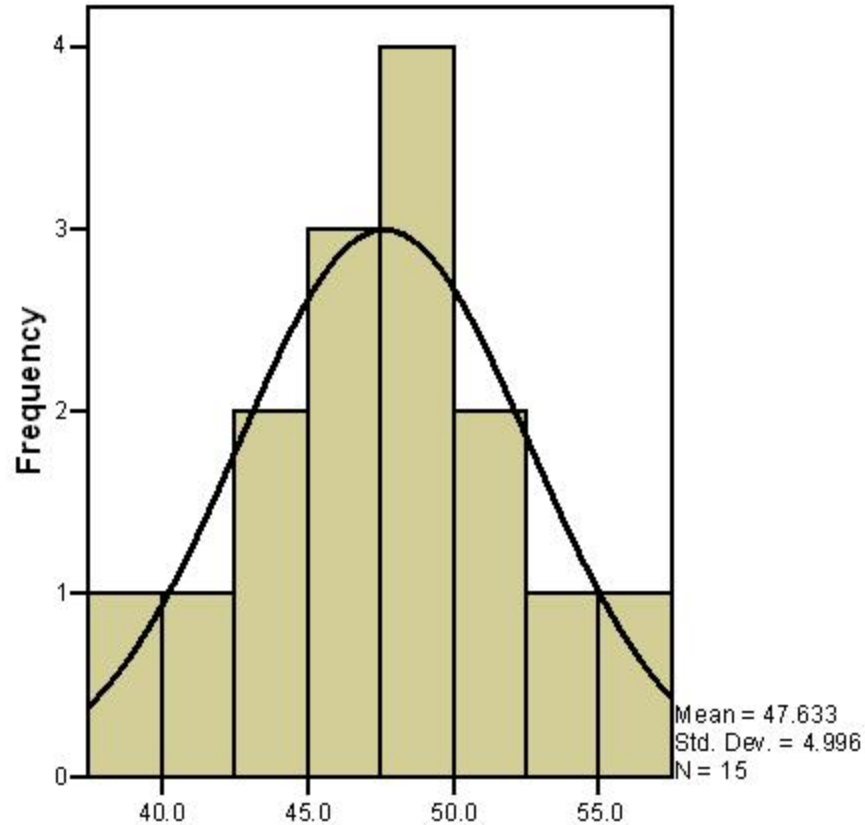


# Particle size of coated powders

<u>Obs</u>	<u>Size</u>
1	38.6
2	40.2
3	43.3
4	44.2
5	45.7
6	46.0
7	47.0
8	47.9
9	48.3
10	49.2
11	49.7
12	50.3
13	52.3
14	54.8
15	57.0

# Particle size of coated powders

Mean = 47.6    SD = 5



# Particle size of coated powder

<u>Obs</u>	<u>Size 1</u>	<u>Size 2</u>
1	38.6	42.1
2	40.2	50.2
3	43.3	47.6
4	44.2	48.1
5	45.7	41.2
6	46.0	49.7
7	47.0	44.9
8	47.9	51.4
9	48.3	52.5
10	49.2	46.3
11	49.7	54.6
12	50.3	58.8
13	52.3	56.9
14	54.8	49.2
15	57.0	51.8

# Two Samples

	<b>N</b>	<b>Mean</b>	<b>Std Dev</b>	<b>Min</b>	<b>Max</b>
<b>1</b>	<b>15</b>	<b>47.6</b>	<b>4.99</b>	<b>38.6</b>	<b>41.2</b>
<b>2</b>	<b>15</b>	<b>49.7</b>	<b>4.97</b>	<b>57.0</b>	<b>58.8</b>





***THE EDGE IN KNOWLEDGE***