

4-2 Range & Standard Deviation page 2

Data
 ① $1\frac{1}{2}$
 $1\frac{1}{2} = 1\frac{1}{2}$
 $1\frac{5}{8}$
 $1\frac{2}{3}$
 $1\frac{3}{4}$

 $8\frac{1}{24} \div 5 = 1\frac{73}{120}$

minus mean squared
 $-13/120$
 $-13/120$
 $1/60$
 $7/120$
 $17/120$

169/14400
 $169/14400$
 $1/360 = 40/14400$
 $49/14400$
 $289/14400$

 $566/14400 \div 4 = 0.0098$ $\sqrt{0.0098} = 0.099$
 median: $1\frac{5}{8}$
 mode: $1\frac{1}{2}$
 mean: $1\frac{73}{120}$ or 1.6083
 Range: $1/4$

② $2\frac{5}{16}$
 3
 $3\frac{7}{8}$
 $4\frac{3}{4}$

 $14\frac{9}{16} \div 4 = 3\frac{41}{64}$

$-45/64$
 $-41/64$
 $15/64$
 $17/64$

0.494
 0.410
 0.055
 1.231

 $2.19 \div 3 = 0.73$ $\sqrt{.73} = 0.85$
 mode: none
 Median: $3\frac{7}{8}$
 mean: $3\frac{41}{64}$ Range: $1\frac{13}{16}$

③ 8
 7
 6
 8
 4
 6
 7

 48
 6.86

1.14
 0.14
 -0.86
 1.14
 -0.86
 -0.86
 0.14

1.31
 0.02
 0.73
 1.31
 0.73
 0.73
 0.02

 $4.86 \div 6 = 0.81$ $\sqrt{0.81} = 0.9$
 mode: 6
 Median: 7
 mean: 6.86
 Range: 2

④ mode: 4500 median: 6200 mean: 6420 Range: 5000
 Standard deviation: 1717

⑤ mode: 3 median: 4 mean: 4 Range: 4 Standard deviation: 1.33