



Worksheet: Expected Values and Standard Errors for Sums

$$EV_{\text{sum}} = n \text{ mean}_{\text{box}}$$

$$SE_{\text{sum}} = \sqrt{n} \text{ SD}_{\text{box}}$$

1. Calculate the mean and population standard deviation for the box then fill in the blanks.

Box	mean_{box}	SD_{box}	n	min_{sum}	max_{sum}	EV_{sum}	SE_{sum}
<div><div>4</div><div>6</div></div>			10				
<div><div>4</div><div>6</div></div>			20				
<div><div>4</div><div>6</div></div>			50				
<div><div>4</div><div>6</div></div>			100				
<div><div>4</div><div>6</div></div>			1,000				
<div><div>4</div><div>6</div></div>			10,000				
<div><div>1</div><div>9</div></div>			10				
<div><div>1</div><div>9</div></div>			20				
<div><div>1</div><div>9</div></div>			100				
<div><div>0</div><div>1</div></div>			10				
<div><div>0</div><div>1</div></div>			100				
<div><div>0</div><div>1</div></div>			1,000				
<div><div>0</div><div>1</div><div>2</div></div>			100				