

Quiz 1

Solution

(a) $\frac{374 + 368 + 381}{3} = 374.33$ pints

(b)

Week of	Pints Used	Weighted Moving Average
August 31	360	
September 7	389	
September 14	410	
September 21	381	
September 28	368	
October 5	374	

$$\begin{aligned}
 381 \times .1 &= 38.1 \\
 368 \times .3 &= 110.4 \\
 374 \times .6 &= \underline{224.4} \\
 &372.9
 \end{aligned}$$

Forecast 372.9

(c)

Week of	Pints	Forecast	Forecasting Error	Error $\times .20$	Forecast
August 31	360	360	0	0	360
September 7	389	360	29	5.8	365.8
September 14	410	365.8	44.2	8.84	374.64
September 21	381	374.64	6.36	1.272	375.912
September 28	368	375.912	-7.912	-1.5824	374.3296
October 5	374	374.3296	-.3296	-.06592	374.2636