

**MA40SA
UNIT E STATISTICS
EXERCISE**

Introduction

Below is some actual *selected* data from the Commonwealth War Graves Commission (www.cwgc.org) of a *few* of our fallen Canadians from **Number 6 Bomber Group of the Royal Canadian Air Force** (<http://www.rcacf.com/6group>) in World War II.

Number 6 Bomber Group had a total of **15,000** airmen; **9,919** died!! That is right!! Further, when you do the Probability Unit of Grade 12 Mathematics you will calculate that there was only a 35% chance of living a full tour of 30 missions if you flew!!

Assignment:

- Make a **histogram** of the data for age at death
- Calculate the **mean**, \bar{x} , of the age of death
- Calculate the **median** age of death
- Calculate the statistical **mode** of the age at death
- Calculate the **range** of the data for age at death
- Calculate the **inter-quartile** range of the age at death
- Calculate the **standard deviation**, σ , of the age at death



Submit all of this on one neatly completed and labeled Histogram of Frequency vs Age at Death

Air Force - Sample - Age of Death - Selected WWII Surname: Smith

*there were two instances of 'unknown' age, so I modified the data to give them an age. You should *never* modify data of course!* MrF

	NAME	RANK	SVC NBR	DATE OF DEATH	AGE	FORCE	NATION	CEMETERY PLOT	CEMETERY
1	SMITH, ALBERT	Flying Officer	J/15771	13/06/1943	23	Royal Canadian Air Force	Canadian	Row U. Grave 5.	TUBBERGEN (REUTUM) ROMAN CATHOLIC CEMETERY
2	SMITH, ALFRED	Pilot Officer	J/86299	27/01/1944	23	Royal Canadian Air Force	Canadian	5. D. 24.	BERLIN 1939-1945 WAR CEMETERY
3	SMITH, ALEXANDER	Leading Aircraftman	R/144471	11/07/1944	21	Royal Canadian Air Force	Canadian	I. A. 15.	NAPLES WAR CEMETERY
4	SMITH, ALBERT ALEXANDER	Flight Sergeant	R/73007	16/05/1942	25	Royal Canadian Air Force	Canadian	Panel 106.	RUNNYMEDE MEMORIAL
5	SMITH, ALBERT GEORGE	Corporal	R/275767	06/03/1945	25	Royal Canadian Air Force	Canadian	Sec. C. Plot 53. Lot D.	WEST VANCOUVER (CAPILANO VIEW) CEMETERY
6	SMITH, ALEXANDER GORDON	Flying Officer	J/3118	17/12/1941	27	Royal Canadian Air Force	Canadian	Column 245.	ALAMEIN MEMORIAL
7	SMITH, ALLAN GORRIE	Flying Officer	J/24727	28/05/1944	27	Royal Canadian Air Force	Canadian	12. B. 8.	HEVERLEE WAR CEMETERY
8	SMITH, ALBERT JOHN	Squadron Leader	J/21249	21/08/1944	22	Royal Canadian Air Force	Canadian	2. J. 12.	TRINCOMALEE WAR CEMETERY
9	SMITH, ALEXANDER JOHN	Pilot Officer	J/16380	12/03/1943	21	Royal Canadian Air Force	Canadian	17. B. 5.	REICHSWALD FOREST WAR CEMETERY

10	SMITH, ARMAND JOSEPH MARCEL	Flight Sergeant	R/79500	09/11/1942	24	Royal Canadian Air Force	Canadian	Panel 106.	RUNNYMEDE MEMORIAL
11	SMITH, ARTHUR PHILIP LODINGTON	Pilot Officer	J/15121	24/04/1942	24	Royal Canadian Air Force	Canadian	Grave 14341.	CAMBRIDGE CITY CEMETERY
12	SMITH, ARTHUR ROY	Warrant Officer Class II	R/171824	08/06/1944	22	Royal Canadian Air Force	Canadian	Plot 3. Coll. grave 9-10.	LA FERTE-ST. CYR COMMUNAL CEMETERY
13	SMITH, BONN CORY	Sergeant	R/78207	24/05/1941	26	Royal Canadian Air Force	Canadian	Block D. Row 3. Grave 28. (Family Plot.).	CALGARY (BURNSLAND) CEMETERY
14	SMITH, BERT HOWARD	Flight Lieutenant	J/11053	16/09/1944	22	Royal Canadian Air Force	Canadian	Joint grave 5. E. 29-30.	BERLIN 1939-1945 WAR CEMETERY
15	SMITH, BENNIE JAY	Sergeant	R/66197	25/02/1941	29	Royal Canadian Air Force	Canadian	Lot 62. Block N.	MOUNT PLEASANT (RIVERSIDE) CEMETERY
16	SMITH, CECIL BAKER	Flight Sergeant	R/74365	07/07/1942	21	Royal Canadian Air Force	Canadian	Row C. Grave 5.	UPAVON CHURCH CEMETERY
17	SMITH, CHARLES CHESTER	Sergeant	R/91151	22/10/1943	20	Royal Canadian Air Force	Canadian	IVa. B. 11.	SCHOONSELHOF CEMETERY
18	SMITH, CARL EDWARD	Pilot Officer	J/9675	13/08/1942	22	Royal Canadian Air Force	Canadian	Panel 101.	RUNNYMEDE MEMORIAL
19	SMITH, CHARLES FREDERICK	Pilot Officer	J/95442	09/12/1944	22	Royal Canadian Air Force	Canadian	Panel 253.	RUNNYMEDE MEMORIAL
20	SMITH, CLARENCE GORDON	Leading Aircraftman	R/254823	25/07/1944	22	Royal Canadian Air Force	Canadian	XI. B. 11.	BENY-SUR-MER CANADIAN WAR CEMETERY, REVIERS

21	SMITH, CLARENCE HAROLD	Warrant Officer Class II	R/65415	04/03/1943	28	Royal Canadian Air Force	Canadian	Panel 180.	RUNNYMEDE MEMORIAL
22	SMITH, COLIN HOMER	Flight Sergeant	R/75630	07/06/1942	24	Royal Canadian Air Force	Canadian	Panel 106.	RUNNYMEDE MEMORIAL
23	SMITH, CHARLES JOSEPH	Flight Sergeant	R/120710	30/01/1943	26	Royal Canadian Air Force	Canadian	Panel 185.	RUNNYMEDE MEMORIAL
24	SMITH, CAMPBELL MURRAY	Warrant Officer	R/84121	11/04/1943	22	Royal Canadian Air Force	Canadian	Grave 2.	LE THOUR COMMUNAL CEMETERY
25	SMITH, CHARLES THOMAS	Warrant Officer Class II	R/84977	26/05/1943	22	Royal Canadian Air Force	Canadian	Coll. grave 4. D. 5-20.	RHEINBERG WAR CEMETERY
26	SMITH, CHARLES WORTH	Pilot Officer	J/89806	12/05/1944	23	Royal Canadian Air Force	Canadian	Panel 253.	RUNNYMEDE MEMORIAL
27	SMITH, CHARLES WOODWARD	Squadron Leader	J/8371	27/01/1944	26	Royal Canadian Air Force	Canadian	14. E. 13.	RHEINBERG WAR CEMETERY
28	SMITH, DAVID	Aircraftman 1st Class	R/56916	15/03/1941	25	Royal Canadian Air Force	Canadian	Mil. Sec. Lot 1584.	WINNIPEG (BROOKSIDE) CEMETERY
29	SMITH, DAVID	Flying Officer	C/1192	04/05/1941	22	Royal Canadian Air Force	Canadian	Lot 4. Sec. 563. Block B.	HAMILTON (WHITE CHAPEL) MEMORIAL GARDENS
30	SMITH, DAVID	Pilot Officer	J/11977	01/10/1942	27	Royal Canadian Air Force	Canadian	Row 5. Grave 11. Mozier Sick Benefit Society Sec.	TORONTO (ROSELAWN) HEBREW CEMETERY

