## Mean for Grouped Data Solutions

TI-84 Plus CE and Mean

Compute the mean for the following Grouped Data. Approximate your answer to the nearest tenths.

### 1. How old are you?

The following sample data table illustrates the ages (years) of students in a Statistics class.

Years	f	m	fm
23 to 27	8	25	200
28 to 32	10	30	300
33 to 37	12	35	420
38 to 42	3	40	120
43 to 47	1	45	45

### Total



34

1085

Texas Instruments	TI-84 Plus CE
NORMAL FLOAT AUTO REAL	. DEGREE MP
1085/34	01 0117(471
	31.911/64/1
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y= window zoom	trace graph

 $\approx$  31.9 years

### 2. How many semesters did it take for you to transfer?

The following sample data illustrates the number of semesters it took for students to transfer from a Community College.

65

Semesters	f	m	fm
6 to 8	4	7	28
9 to 11	6	10	60
12 to 14	18	13	234
15 to 17	22	16	352
18 to 20	15	19	285

Total

959

Texas Instruments	TI-84 Plus CE
NORMAL FLOAT AUTO REAL	DEGREE MP
959/65	14.75384615
statplot f1 tblset f2 format f y= window zoom	3 calc f4 table f5 trace graph

# $\approx$ 14.8 semesters

#### 3. Lifespan of an iPhone?

The following data illustrates the lifespan (months) of an iPhone for various customers at Best Buy.

45

Months	f	m	fm
12 to 19	3	15.5	46.5
20 to 27	15	23.5	352.5
28 to 35	12	31.5	378
36 to 43	10	39.5	395
44 to 51	5	47.5	237.5

Total

1409.5



 $\approx$  31.3 months

### 4. How much sleep do you get during the weeknight?

The following data illustrates the amount of time (hours) students sleep during a weeknight.

Hours	f	m	fm
0 to 3	9	1.5	13.5
4 to 7	11	5.5	60.5
8 to 11	10	9.5	95
12 to 15	13	13.5	175.5

Total

344.5

VIEXAS INSTRUMENTS	TI-84 Plus CE
344.5/43	8.011627907
statplot f1 tblset f2 format f y= window zoom	3 calc f4 table f5 trace graph

43

 $\approx$  8.0 hours

## 5. How fast do you drive on the freeway?

The following sample data illustrates the speed (M.P.H) of cars on the freeway.

MPH	f	m	fm
65 to 69	5	67	335
70 to 74	8	72	576
75 to 79	6	77	462
80 to 84	2	82	164
85 to 89	1	87	87



22

1624

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NORMAL FLOAT AUTO REAL	DEGREE MP
1624/22	72 01010102
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statplot f1 tblset f2 format f	3 calc f4 table f5
y= window zoom	trace graph

 $\approx$  73.8 mph

#### Answers

- 1. 31.9 years
- 2. 14.8 semesters
- 3. 31.3 months
- 4. 8.0 hours
- 5. 73.8 MPH