Algebra Text

Section 1.3 Exercises and Applications
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1. 0 0 0 0 0 1 1 2 2 2 2 3 3 4 4 8

mean = $\frac{32}{16} = 2$

median = $\frac{2+2}{2} = 2$

mode = 0

2. Arrange data, smallest to largest

5 5 5 5 8 8 8 10 10 14 14 14 14 25

mode — median — mode

median $\frac{8+10}{2} = 9$

mean = 10.35

20
24
20
56
25
145

14 | 14500
-14
050
-42
80
-70
10

mean = 10.35 or 10.4
median = 9
mode = 5 and 14

3. 73 85 111 118 169 173 202 236 244 244 246
302 306 311 345 593

median $\frac{236+244}{2} = 240$

mode = 244

mean = 234.87 or 234.9

73
85
111
118
169
173
729

202
236
244
244
246
1172

302
306
311
345
593
1857

1857
1172
729
3758

3. mean calculation

$$16 \overline{)3758.00} = 234.87$$

-32

55

-48

78

-64

140

-128

120

112

8

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4.a. 1 1 1 1 1 2 2 2 2 2 2 2 3 3 3 3 3 3 5 5 5
6 6 7 7 8 8 8 8 8 8 8

mean = 4.18 or 4.2

median = 3

mode = 2 and 8
(each have 7 customers)

$$32 \overline{)134.00} = 4.18$$

128

60

-32

280

-256

24

37
41
56
134

5. 0 0 2 2 6

mean = $\frac{x+4}{5} = 2$