350 d. 202011219.	5.87. Table 5-17 shows the diameters in inches of a sample of 60 ball bearings manufactured by a company. Construct a frequency distribution of the diameters using appropriate class intervals. Table 5-17
	0.738 0.729 0.743 0.740 0.736 0.741 0.735 0.731 0.726 0.737 0.728 0.737 0.736 0.735 0.724 0.733 0.742 0.736 0.739 0.735
5.79. Two samples of sizes 4 and 8 are drawn from a normally distributed population. Is the probability that one variance is greater than 1.5 times the other greater than 0.05, between 0.05 and 0.01, or less than 0.01?	0.745 0.736 0.742 0.740 0728 0.738 0.725 0.733 0.734 0.732
	0.733
$\frac{1651^2}{63^2} \sim \chi^2(3)$ $\frac{851^2}{63^2} \sim \chi^2(7)$	0.732 0.737 0.731 0.746 0.735 0.735 0.729 0.734 0.730 0.740
1 2 ~ X(3). 2 ~ X(1).	dipporter number
	0.723-0.727 5 Numbers
$\frac{751^{2}}{651^{2}} = \frac{451^{2}/3}{851^{2}/7} \sim F(3.7) > 1.5 \times 7 = 1.75.$	0.728 - 0.732 14 35 24
	0.733 - 0.737 24 is 14 12
P > 0.05.	0.748 - 0.742 12 5
2°65×2° ~ F(7.3) >1.5×9	
	5.107. (a) Find the mean and standard deviation for the data of Problem 5.28. (b) Construct a frequency distribution for the data, and find the standard deviation.
P >0.05	(b) Construct a frequency distribution for the data, and find the standard deviation. (c) Compare the result of (b) with that of (a).
	(A) X = 1468 S = 12.89.
5.82. Table 5-16 shows a frequency distribution of the lifetimes of 400 radio tubes tested at the L & M Tube	
Company. With reference to this table, determine the (a) upper limit of the fifth class (b) class boundaries of the last class (c) class investigated in	(b) 重生(1b)
(a) upper limit of the fifth class (c) class interval size (b) lower limit of the eighth class (f) frequency of the fourth class	by x 3 + 10 12 + 10
(c) class mark of the seventh class (g) relative frequency of the sixth class	118-126 3 X= 40
Table 5-16 (h) percentage of tubes whose lifetimes do not exceed 600 hours	
(i) percentage of tubes with lifetimes greater than or equal to 900 hours	127 - /25 5
Lifetime Number of (i) percentage of tubes with lifetimes greater than or equal to 900 hours (i) percentage of tubes whose lifetimes are at least 500 but less than 1000 hours	137 - 135 5 = 146.975
Litetume (hours) Tubes (j) percentige of tubes whose lifetimes are at least 500 but less than 1000 hours	127 - 125 5 = 146.975
Litetume Number of thours Tubes	136-144 9 = 146-7/5
Litetume (hours) Tubes 300-399 14 400-499 46 500-599 58 600-669 76	136 - 164 9 = 146 //3 145 - 153 12 S = 13.72
Number of these Number of these Number of these Number of these whose lifetimes are at least 500 but less than 1000 hours	136 - 164 9 = 146-7/3 145 - 153 12 S = 13.72 154 - 162 5
Litetume (hours Tubes Tubes Tubes) 300-399 14 400-499 46 500-599 58 600-699 76	136 - 164 9 = 146 //3 145 - 153 12 S = 13.72
Litetume (hours) Tubes 303-399	136 - 164 9 = 146 //3 145 - 153 12 S = 13.72 154 - 162 5 163 - 17' 4
Litetume (hours) Tubes 300-399 14 400-499 46 500-599 58 600-699 76 700-799 68 800-899 62 900-992 48 1000-1099 22 1100-1199 66	136 - 164 9 = 146-7/3 145 - 153 12 S = 13.72 154 - 162 5 163 - 171 4 172 - 180. 2.
Litetume (bours) Tubes	136 - 164 9 = 146 //3 145 - 153 12 S = 13.72 154 - 162 5 163 - 17' 4
Litetum (hours) 7 thes 300-399 400-499 460-599 58 600-699 700-799 88 800-899 1000-1099 22 1100-1199 6 TOTAL 400 799.5 (b) 949.5 (c) 949.5 (d) 1997.5 ~ 1199.5	136 - 164 9 = 146-7/3 145 - 153 12 S = 13.72 154 - 162 5 163 - 171 4 172 - 180. 2.
Litetum (hours) Tubes Tu	136 - 164 9 = 146-7/3 145 - 153 12 S = 13.72 154 - 162 5 163 - 171 4 172 - 180. 2.
Liletume (hours) Tubes 300-399 400-499 400-499 500-599 58 600-699 700-799 68 800-899 100-1199	136 - 164 9 = 146-7/3 145 - 153 12 S = 13.72 154 - 162 5 163 - 171 4 172 - 180. 2.
Liletume (hours) Tubes 300-399 400-499 400-499 500-599 58 600-699 700-799 68 800-899 100-1199	136 - 164 9 = 146-7/3 145 - 153 12 S = 13.72 154 - 162 5 163 - 171 4 172 - 180. 2.
Liletume (hours) Tubes 300-399 400-499 400-499 500-599 58 600-699 700-799 68 800-899 100-1199	136 - 164 9 = 146-7/3 145 - 153 12 S = 13.72 154 - 162 5 163 - 171 4 172 - 180. 2.
Litetum (hours) 7 thes 300-399 400-499 460-599 58 600-699 700-799 88 800-899 1000-1099 22 1100-1199 6 TOTAL 400 799.5 (b) 949.5 (c) 949.5 (d) 1997.5 ~ 1199.5	136 - 164 9 = 146-7/3 145 - 153 12 S = 13.72 154 - 162 5 163 - 171 4 172 - 180. 2.
Liletume (hours) Tubes 300-399 400-499 400-499 500-599 58 600-699 700-799 68 800-899 100-1199	136 - 164 9 = 146-7/3 145 - 153 12 S = 13.72 154 - 162 5 163 - 171 4 172 - 180. 2.
Liletume (hours) Tubes 300-399 400-499 400-499 500-599 58 600-699 700-799 68 800-899 100-1199	136 - 164 9 = 146-7/3 145 - 153 12 S = 13.72 154 - 162 5 163 - 171 4 172 - 180. 2.
Litetum (bours) Tubes 300-399 400-499 400-499 466 600-699 700-799 68 800-899 1000-1099 22 1100-1199 6 TOTAL 400 101) 799.5. (b) 999.5 (c) 949.5 (d) 1997.5 ~ 1199.5 (e) 100 (f) 76 19 62/400 = 0.155. (h) 144 + 58 - 295%	136 - 164 9 = 146-7/3 145 - 153 12 S = 13.72 154 - 162 5 163 - 171 4 172 - 180. 2.
Liletume (hours) Tubes 300-399 400-499 400-499 500-599 58 600-699 700-799 68 800-899 100-1199	136 - 164 9 = 146-7/3 145 - 153 12 S = 13.72 154 - 162 5 163 - 171 4 172 - 180. 2.
Litetume (bours) Tubes 300-399 400-499 400-499 400-599 58 600-699 700-799 88 800-899 1100-1199 22 1100-1199 6 TOTAL 400 400 400 400 400 400 400 4	136 - 164 9 = 146-7/3 145 - 153 12 S = 13.72 154 - 162 5 163 - 171 4 172 - 180. 2.