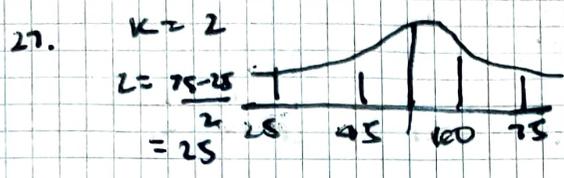


- | | | |
|------|------|------|
| 1 B | 11 B | 22 C |
| 2 A | 12 D | 23 B |
| 3 C | 13 A | 24 B |
| 4 C | 14 B | 25 A |
| 5 B | 15 B | |
| 6 D | 16 A | |
| 7 C | 17 D | |
| 8 C | 18 A | |
| 9 B | 19 C | |
| 10 A | 20 B | |
| | 21 C | |

26. $9.5 \times 7 = 66.5 - 7.75$
 $= 58.75 / 6 = 9.791666$

9.46



$1 - \frac{1}{25}$
 $.9984 \times 100$
 $= 99.84\%$

28.

a. $6 + 9 + 7 + 13 + 7 = 42$

b. $(6 \times 3) + (9 \times 5) + (7 \times 5) + (13 \times 6) + (7 \times 8)$
 $18 + 45 + 35 + 78 + 56 = 232$

c. $6^2 + 9^2 + 7^2 + 13^2 + 7^2$
 $36 + 81 + 49 + 169 + 49 = 384$

d. $3^2 + 5^2 + 5^2 + 6^2 + 8^2$
 $9 + 25 + 25 + 36 + 64 = 159$

e. $(36 \times 3) + (81 \times 5) + (49 \times 5) + (169 \times 6) + (49 \times 8)$
 $108 + 405 + 245 + 1014 + 392 = 2164$

f. $(6 \times 9) + (9 \times 25) + (7 \times 25) + (13 \times 36) + (7 \times 64)$
 $54 + 225 + 175 + 468 + 448 = 1370$

g. $[(6-3)^2 \cdot 3] + [(9-3)^2 \cdot 5] + [(7-3)^2 \cdot 5] + [(13-3)^2 \cdot 6] + [(7-3)^2 \cdot 8]$
 $27 + 180 + 80 + 600 + 120 = 1015$

29.

a. 400

b. $223/400 = 55.75\%$

c. $291/400 = 72.75\%$

d. $100\% - 72.75\% = 27.25\%$

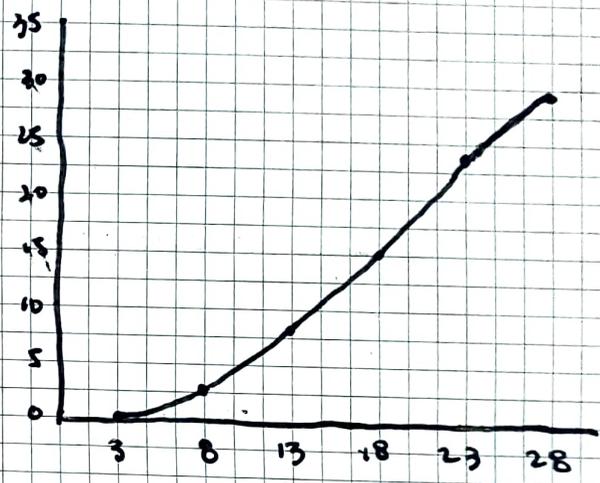
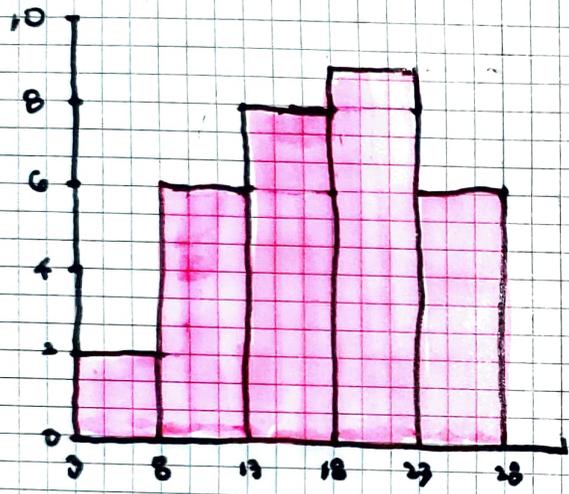
e. $350/400 = 87.5\%$

f. $400 - 158 = 242$

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30.

Class interval	class boundaries	Frequency	Relative Frequency	Cumulative frequency
3-7	2.5-7.5	2	$2/31 = 0.0645$	2
8-12	7.5-12.5	6	$6/31 = 0.1935$	8
13-17	12.5-17.5	8	$8/31 = 0.2581$	14
18-22	17.5-22.5	7	$7/31 = 0.2260$	21
23-27	22.5-27.5	6	$6/31 = 0.1935$	27



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31.

9.

Stem	Leaf
0	5 7 8
1	1 2 2 3 3 4 7 9
2	0 1 2 3 4 5 6 6 8
3	1 1 2 5 6 7 7 9
4	0 2

b. $\frac{23 + 29}{2} = 23.5$

Median = 23.5

Mode = 12, 13, 26, 31, 37

c. $706130 = 23.5333$

mean = 23.533

$42 - 5 = 37$

Range = 37

d. $706^2 = 498436 / 30 = 16614.533$

$5^2 + 7^2 + 8^2 + \dots + 39^2 + 40^2 + 42^2 = 20012$

$16614.533 - 20012 = 3397.44467 / 29$

$= \sqrt{117.15402298850576} = 10.82377 \dots$

Standard deviation = 10.82

Variance = 117.15

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