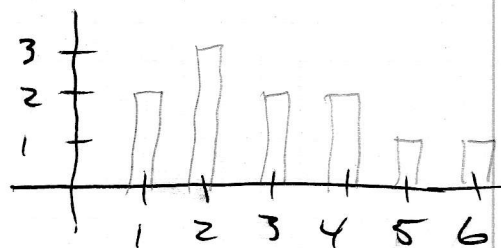


1 DATA: 1, 1, 2, 2, 2, 3, 3, 4, 4, 5, 6 $n=11$

CLASS	FREQ
1	2
2	3
3	2
4	2
5	1
6	1



2 MEAN (\bar{x}) = $\frac{33}{11} = 3$ (b)

3 MEDIAN 3 (b)

4 MODE (FROM GRAPH) 2 (d)

5 STD. DEV. = $\sqrt{\text{VAR}}$ = 1.61 (d)

6 VARIANCE: $\frac{26}{11-1} = 2.6$ (b)

X	\bar{x}	$x - \bar{x}$	$(x - \bar{x})^2$
1	3	-2	4
1	3	-2	4
2	3	-1	1
2	3	-1	1
2	3	-1	1
3	3	0	0
3	3	0	0
4	3	1	1
4	3	1	1
5	3	2	4
6	3	3	9
			26

7 SKEWNESS = $\frac{(\text{MEAN} - \text{MODE})}{\text{STD. DEV.}} = \frac{(3 - 2)}{1.61} = 0.62$ (d)

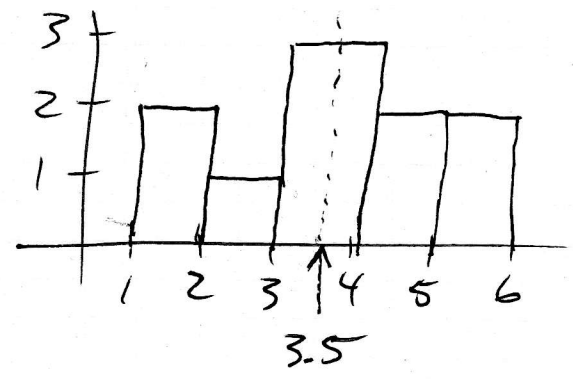
8 (d)

9 (c)

10 DATA: 1.3, 1.9, 2.1, 3.1, 3.8, 3.8, 4.4, 4.5, 5.1, 5.3

n=10

CLASS	FREQ
1-2	2
2-3	1
3-4	3
4-5	2
5-6	2



11 MEAN $\boxed{3.53}$ (d)

12 MEDIAN $\frac{3.8+3.8}{2} = \boxed{3.8}$ (b)

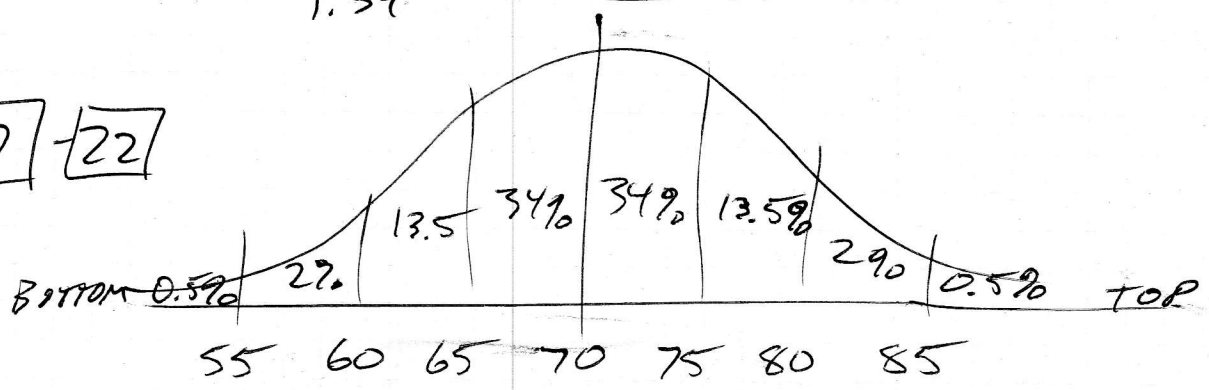
13 MODE MIDDLE OF 3-4 RANGE = $\boxed{3.5}$ (a)

14 STD. DEV. = $\boxed{1.39}$ (d)

15 VAR. = $(\text{STD. DEV.})^2 = \boxed{1.92}$ (c)

16 SK = $\frac{3.53-3.5}{1.39} = \boxed{0.022}$ (c)

17 $\boxed{-22}$



17. $\text{score} > 80$? 2.5% (b)

$\boxed{20.1}$ 70 (b)

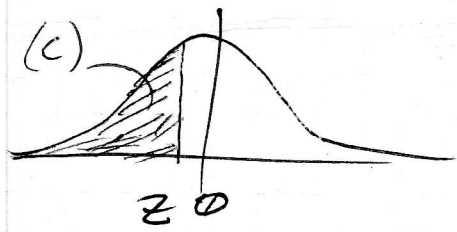
18. 97.5th PERCENTILE (d)

$\boxed{21}$ 97.5% (d)

19. 75 (d)

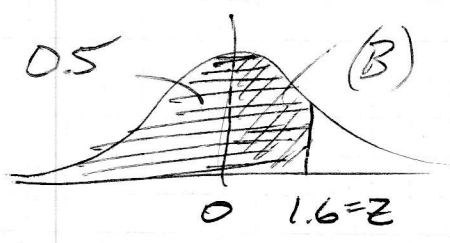
$\boxed{22}$ 95% (b)

23. $Z = 0.4$
LEFT OF
AREA = ?



$(C) = 0.345$ (34.5%) (C) (ANSWER)

24. $Z = 1.6$
LEFT OF...

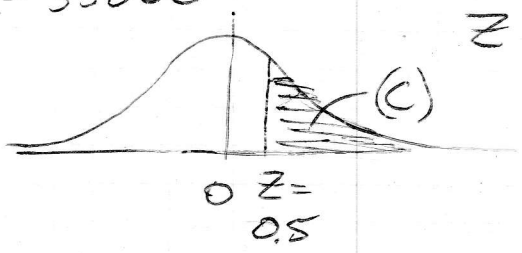


(B) 0.445
+ HALF 0.5
 $\boxed{0.945}$

(d) (ANSWER)

25. $\mu = 50000$
 $\sigma = 10,000$
 $x = 55000$

$\Rightarrow Z = \frac{(x - \mu)}{\sigma} = \frac{(55000 - 50000)}{10000}$
 $Z = 0.5$



(C) $\boxed{0.309}$
(30.9%)

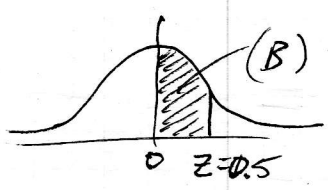
(b) (ANSWER)

26. POP. = 1.5 MILLION

FROM #25, FRACTION ABOVE 55000 IS 0.309

$(0.309) * (1.5 \text{ MILLION}) = \boxed{0.46 \text{ MILLION}}$ (C) (ANSWER)

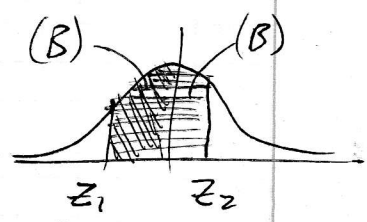
27. $x = 55000$
 $Z = 0.5$



(B) = 0.192 = $\boxed{19.2\%}$ (d) (ANSWER)

28. BETWEEN $x_1 = 35000$

$Z_1 = \frac{(35000 - 50000)}{10000} = -1.5$



AND $x_2 = 55000$

$Z_2 = 0.5$

$Z_1(B) = 0.433$
 $+ Z_2(B) = + 0.192$
 $\boxed{0.625}$ (ANSWER) (d)