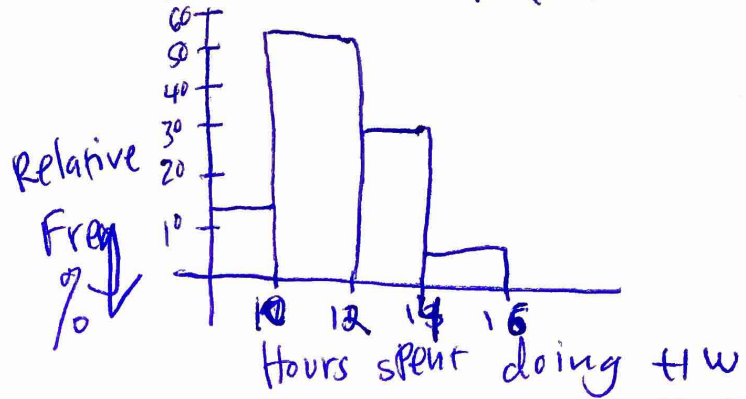


1. Lori asked 24 students how many hours they spent doing homework during the previous week. Complete the relative frequency table and create a **HISTOGRAM** representing the relative frequency data.

10 10 10 8 10 10 15 13 10 8 13 10 10 13 10 10 13 10 13 13 8

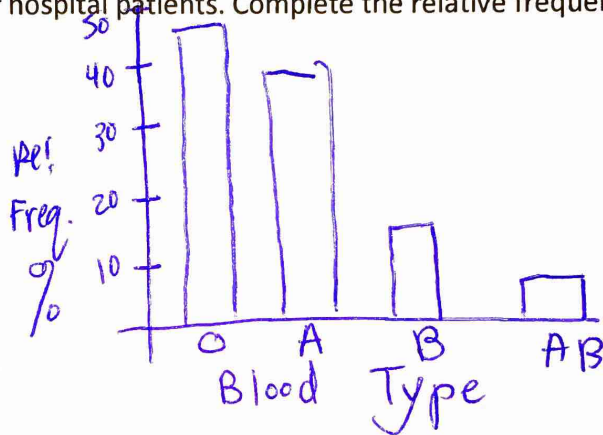
HOURS	FREQUENCY	RELATIVE FREQUENCY
8-9	3	.125 → 12.5%
10-11	13	.542 → 54.2%
12-13	7	.292 → 29.2%
14-15	1	.042 → 4.2%



2. The table lists blood types in a sample of hospital patients. Complete the relative frequency table, then construct a **BAR GRAPH** for the relative frequency data.

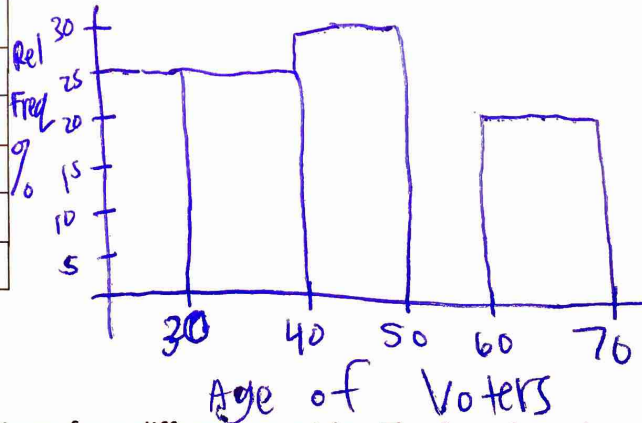
BLOOD TYPE	FREQUENCY	RELATIVE FREQUENCY
O	22	0.44 → 44%
A	19	0.38 → 38%
B	6	0.12 → 12%
AB	3	0.06 → 6%

total: 50



3. In a survey, 20 voters were asked their age. The results are summarized in the frequency table below. Complete the relative frequency table and construct a **HISTOGRAM** for the relative frequency data.

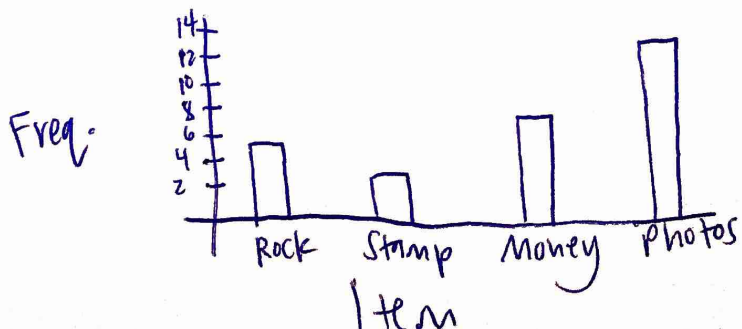
AGE OF VOTER	# OF VOTERS	RELATIVE FREQUENCY
20-29	5	.25 → 25%
30-39	5	.25 → 25%
40-49	6	.30 → 30%
50-59	0	.00 → 0%
60-69	4	.20 → 20%



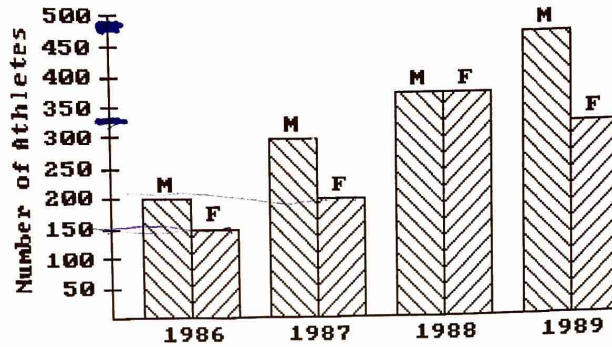
4. Students in Mr. Mason's classes collected items from different countries. The data shows how many of each item the class collected. Create a frequency table and construct a **BAR GRAPH** for the frequency data.

His students brought 5 rocks, 3 stamps, 8 coins/paper money, and 13 photos.

Item	Frequency
Rock	5
Stamp	3
money	8
photos	13



5. The following double-bar graph shows the number of male (M) and female (F) athletes at a university over a 4 year period. Answer the following questions:



- Which year had the greatest number of female athletes?
- Which year had the smallest number of female athletes?
- What percentage of all students involved in athletics in 1986 were female?
(round to nearest percent) $\text{total in 1986: } 200 + 150 = 350$
- What percentage of all students involved in athletics in 1989 were male?
(round to nearest percent) $\text{total in 1989: } 475 + 325 = 800$
- What is the only year in which the number of female athletes declined from its previous year?

$$\frac{1988}{1986} = 43\%$$

$$\frac{150}{350} = 59\%$$

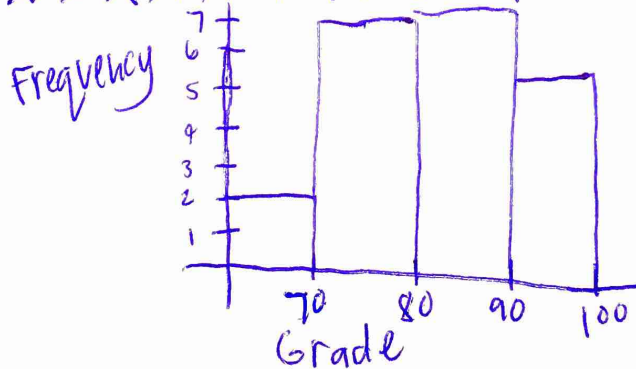
$$\frac{475}{800} = 59\%$$

$$\frac{1989}{1989} = 1989$$

6. The students in Mrs. Teacher's Spanish class received the following scores on a test. Construct a **HISTOGRAM** to represent the data. Use 4 classes with a class width of 10 and begin with a lower class boundary of 60.

~~75 94 87 83 78 72 85 75 82 78 97 72 87 94 72 83 87 95 85 97 69~~

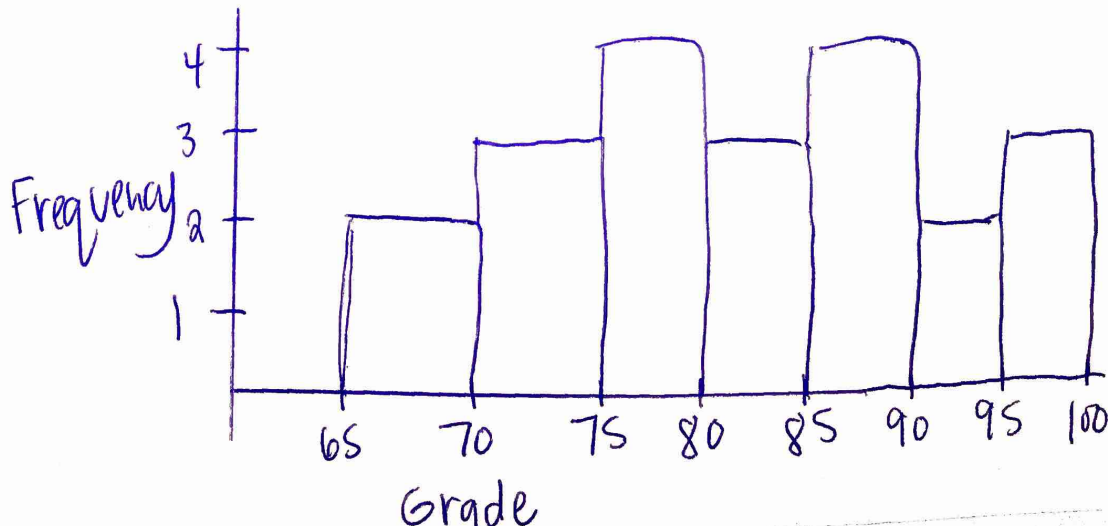
SCORES	FREQUENCY
60-69	2
70-79	7
80-89	7
90-99	5



total: 21

Create a new frequency table and **histogram** using a class width of 5 and a lower class boundary of 60.

SCORES	FREQUENCY
60-64	0
65-69	2
70-74	3
75-79	4
80-84	3
85-89	4
90-94	2
95-99	3



total: 21