

Name: _____

Show work needed to justify your answer.

Date: _____

HW: # 25: Math IBSL - Standard 24 - Measures of Central Tendency

5 points

2 Find the mode of each frequency table.

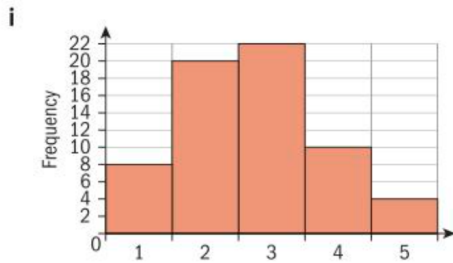
a

| Shoe size | f |
|-----------|-----|
| 8 | 8 |
| 9 | 6 |
| 10 | 9 |
| 11 | 7 |
| 12 | 7 |

b

| Marks (y) | f |
|-------------------|-----|
| $0 < y \leq 20$ | 2 |
| $20 < y \leq 40$ | 13 |
| $40 < y \leq 60$ | 25 |
| $60 < y \leq 80$ | 55 |
| $80 < y \leq 100$ | 34 |

3 a Find the mode from each histogram.



3 A group of teachers were asked how many cups of coffee they drank in a typical day. The results are shown in this table.

| Cups | 0 | 1 | 2 | 3 | 4 | 5 |
|------|---|---|---|---|----|---|
| f | 6 | 5 | 4 | 7 | 10 | 4 |

Find the mean number of cups of coffee.

6 Mo works as a barista in a coffee shop and records the total amount, per day, that he receives in tips.

| Tip(\$) | f |
|-------------------|-----|
| $0 < \$ \leq 10$ | 6 |
| $10 < \$ \leq 20$ | 14 |
| $20 < \$ \leq 30$ | 15 |
| $30 < \$ \leq 40$ | 8 |
| $40 < \$ \leq 50$ | 2 |

What is his average amount of tips per day, to the nearest cent?

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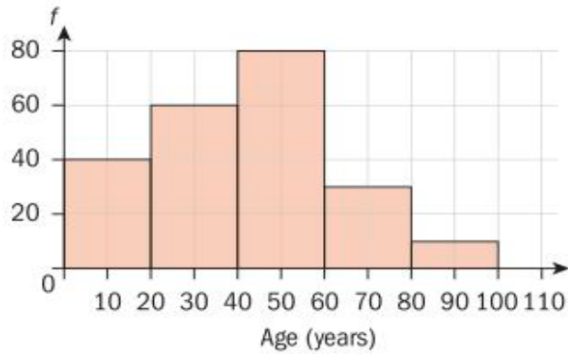
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- 8 The histogram represents the ages of the people in a village.



- a How many people are there in the village?
- b Write down the modal class of the distribution.
- c Find the mean age.
-
- 9 If the mode of this set of numbers is 2 and the mean is 5, find the values of a and b .
- 1, 2, a , 4, 5, 6, b , 8, 10

-
- 10 The mean of 8, x , 17, $2x + 3$ and 45 is 23. Find the value of x .