

Lesson 17: Pizza Restaurant Ratings

Tally Tables •
Mean • Mode •
Median •
Percentages



Instructions

- Use a whiteboard and marker
- Show all your steps
- Do not guess
- Check your work






Pizza Rating Scale

- 1 = Poor
- 2 = Fair
- 3 = Good
- 4 = Very Good
- 5 = Excellent



Survey Results

5, 4, 3, 4, 2, 5, 5, 3, 2, 4,
5, 5, 3, 5, 3, 5, 1, 4, 4, 5



Tally Table (Question)

- Create a tally table.
- Every 5 must be crossed correctly.

Tally Table (Answer)

- Rating | Tally | Frequency

- 1 | 1

- 2 || 2

- 3 |||| 4

- 4  5

- 5  ||| 8

Check Total (Question)

- Add all frequencies.
- Total = _____



Check
Total
(Answer)

$$1 + 2 + 4 + 5 + 8 \\ = 20$$



Mode (Question)

- What rating appears most often?
- Mode = _____



Mode (Answer)

- Mode = 5



Median (Question)

- Put the ratings in order and find the middle.
- Median =



Median (Answer)

- Median = 4



Mean (Question)

- Add all ratings and divide by 20.
- Mean = _____



Mean (Answer)

- Total = 77
- Mean = 3.85



Percentages (Questions)

1. What percentage rated the restaurant Excellent (5)?
2. What percentage rated it Poor (1)?
3. What percentage rated it Very Good (4)?



Percentages (Answers)

1. Excellent: $8/20 = 40\%$
2. Poor: $1/20 = 5\%$
3. Very Good: $5/20 = 25\%$



Positive vs Negative Ratings (Questions)

- 1–2 = Negative
 - 3 = Neutral
 - 4–5 = Positive
1. What percentage of ratings are positive?
 2. What percentage are negative?
 3. What percentage are neutral?



Positive vs Negative Ratings (Answers)

1. Positive: $13/20 = 65\%$
2. Negative: $3/20 = 15\%$
3. Neutral: $4/20 = 20\%$



Thinking Questions

1. Do most people like the restaurant?
2. Is the average rating high or low?
3. Would you eat at this restaurant? Why?



Thinking Answers

1. Yes, most ratings are positive.
2. The average rating is high.
3. Answers will differ.



Bar Graph

Create a bar graph using the pizza ratings. Put the ratings (1–5) on the bottom axis and the frequencies on the left axis.



PIZZA RESTAURANT RATINGS

FREQUENCY



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