

MEAN and MEDIAN REVIEW – Burciagas

1. The Burciagas spent the following amounts on groceries during a 4 week period. What is the **average** weekly food expense of the Burciaga family?

| WEEKLY GROCERIES | |
|------------------|----------|
| Week 1 | \$ 72.84 |
| Week 2 | \$ 61.20 |
| Week 3 | \$ 75.48 |
| Week 4 | \$ 68.76 |

| | | | | |
|---|---|---|---|---|
| | | | | |
| | ⊘ | ⊘ | ⊘ | |
| ⊙ | ⊙ | ⊙ | ⊙ | ⊙ |
| ① | ① | ① | ① | ① |
| ② | ② | ② | ② | ② |
| ③ | ③ | ③ | ③ | ③ |
| ④ | ④ | ④ | ④ | ④ |
| ⑤ | ⑤ | ⑤ | ⑤ | ⑤ |
| ⑥ | ⑥ | ⑥ | ⑥ | ⑥ |
| ⑦ | ⑦ | ⑦ | ⑦ | ⑦ |
| ⑧ | ⑧ | ⑧ | ⑧ | ⑧ |
| ⑨ | ⑨ | ⑨ | ⑨ | ⑨ |

2. Three Dog Night has 20 employees and a **total weekly payroll of \$25,440**. What is the **average** employee's salary at Three Dog Night?

① ② ③ ④ ⑤

- (1) \$1,212.00
(2) \$1,222.00
(3) \$1,232.00
(4) \$1,262.00
(5) \$1,272.00

3. Of the following driving test results, who received the **median** score on the driving test?

| DRIVING TEST RESULTS | |
|----------------------|-------|
| Name | Score |
| Cruz | 98 |
| Bill | 76 |
| Carrie | 90 |
| Sylvia | 88 |
| Raquel | 92 |
| Jose | 67 |
| Kathy | 85 |

① ② ③ ④ ⑤

- (1) Cruz
(2) Bill
(3) Raquel
(4) Jose
(5) Sylvia

4. On Saturday night Juan Valdez had these bowling scores.

| | |
|---------|-----|
| score 1 | 185 |
| score 2 | 202 |
| score 3 | 159 |

What was Juan's **mean** score for the night?

① ② ③ ④ ⑤

- (1) 162
(2) 172
(3) 182
(4) 192
(5) 202

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5. Miss Romero is a manager for The Dollar Tree. She recorded the following sales for these six months.

The Dollar Tree Sales

| | |
|----------|---------|
| January | \$4,270 |
| February | \$2,675 |
| March | \$2,751 |
| April | \$3,734 |
| May | \$2,683 |
| June | \$4,671 |

What is the **median** sales figure for the six months at The Dollar Tree?

① ② ③ ④ ⑤

- (1) \$2,683.00
(2) \$3,242.50
(3) \$3,742.50
(4) \$4,270.00
(5) \$4,671.00

6. Which day had the **median** sales for the week shown in the table below?

DAILY SALES

| | |
|-----------|-------|
| Sunday | \$502 |
| Monday | \$490 |
| Tuesday | \$317 |
| Wednesday | \$760 |
| Thursday | \$818 |
| Friday | \$678 |
| Saturday | \$941 |

① ② ③ ④ ⑤

- (1) Sunday
(2) Monday
(3) Tuesday
(4) Wednesday
(5) Friday

The following information refers to questions 7 and 8.

SELECTED PUBLIC LIBRARIES

| Location | Number of Branches | Volumes |
|------------------|--------------------|-----------|
| Denver | 4 | 383,000 |
| Colorado Springs | 10 | 493,509 |
| La Junta | 5 | 548,244 |
| Grand Junction | 14 | 903,084 |
| Boulder | 53 | 3,164,632 |
| Fort Collins | 8 | 509,386 |

7. What is the **median** number of **volumes** of books for the selected libraries in the chart above?

① ② ③ ④ ⑤

- (1) 493,507
(2) 527,806
(3) 528,815
(4) 528,915
(5) 1,057,630

8. **How many more** bound volumes of books do the Boulder libraries have than the Denver libraries?

① ② ③ ④ ⑤

- (1) 2,261,548
(2) 2,616,388
(3) 2,655,246
(4) 2,671,123
(5) 2,781,632

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9. Mary's **AVERAGE** salary is \$76 per day for 5 days. The following is Mary's **actual** salary per day.

| | |
|-----------|------|
| Monday | \$94 |
| Tuesday | \$58 |
| Wednesday | \$70 |
| Thursday | \$82 |
| Friday | \$ |

How much is Mary's salary on Friday?

① ② ③ ④ ⑤

- (1) \$60.80
(2) \$71.00
(3) \$75.00
(4) \$76.00
(5) \$83.00

10. Each year, Julian's highest heating bills occur during November, December, January, and February. Find Julian's **average** monthly heating costs during these months.

| | |
|----------|----------|
| November | \$176.50 |
| December | \$188.93 |
| January | \$207.58 |
| February | \$196.75 |

① ② ③ ④ ⑤

- (1) \$182.44
(2) \$192.44
(3) \$193.44
(4) \$193.54
(5) \$769.76

11. On Mondays, Wednesdays, and Fridays, Kenny gets up at 6:00 a.m. On Tuesdays he is up at 8:00 a.m., and Thursdays he sleeps until 9:00 a.m. For these five days, what is the **average** time Kenny gets up?

① ② ③ ④ ⑤

- (1) 6:00 a.m.
(2) 7:00 a.m.
(3) 8:00 a.m.
(4) 9:00 a.m.
(5) 10:00 a.m.

12. On three tests, Max had scores of 38, 41, and 47. An average score of 30 is necessary to pass each test. How many points **above the passing score is Max's average score?**

① ② ③ ④ ⑤

- (1) 10
(2) 11
(3) 12
(4) 13
(5) 14

13. In 4 months Darlene's weight went from 188 pounds to 140 pounds. During this time, what was Darlene's **average** monthly weight loss in pounds?

| | | | | |
|---|---|---|---|---|
| | | | | |
| | ⊗ | ⊗ | ⊗ | |
| ⊙ | ⊙ | ⊙ | ⊙ | ⊙ |
| ① | ① | ① | ① | ① |
| ② | ② | ② | ② | ② |
| ③ | ③ | ③ | ③ | ③ |
| ④ | ④ | ④ | ④ | ④ |
| ⑤ | ⑤ | ⑤ | ⑤ | ⑤ |
| ⑥ | ⑥ | ⑥ | ⑥ | ⑥ |
| ⑦ | ⑦ | ⑦ | ⑦ | ⑦ |
| ⑧ | ⑧ | ⑧ | ⑧ | ⑧ |
| ⑨ | ⑨ | ⑨ | ⑨ | ⑨ |