

Hello 2025-2026 Stats Students! Here's your Summer Packet (HW #1) and some general information.

**Topics Covered:**

- converting decimals to percents
- converting percents to decimals
- rounding
- finding the mean
- finding the median
- finding the range
- drawing dotplots

**Answers:**

The odd answers are provided on the last page, but you must do all 50 problems.

**Due Date:**

This assignment is due the first day of school, and it will count as your first homework grade (HW #1).

**Assessment:**

There will be a test on this material in the first week or two of the school year.

**Purpose:**

We will encounter these necessary and basic (Pre-Algebra) skills throughout the year.

**Calculator:**

A **TI-83 or TI-84 graphing calculator** is **required** for this course.

- You absolutely must have your own calculator and bring it to class every day.
- This calculator is essential for this course and it will be used daily.
- Every year students think they can get by without this calculator. It never works out for them.
- Please track down a TI-83 or TI-84 calculator this summer!

Let me know if you have any questions. I'm looking forward to a great year in Stats!!!

STATISTICS

Name \_\_\_\_\_

SUMMER PACKET (HW #1)

Date \_\_\_\_\_

**Write each decimal as a percent. Round to ONE decimal place.**

1) 0.2

2) 0.3

3) 0.4

4) 0.35

5) 0.71

6) 0.117

7) 0.573

8) 0.916

9) 0.74

10) 0.07

**Write each percent as a decimal.**

11) 51%

12) 8%

13) 68%

14) 1%

15) 2%

16) 0.6%

17) 69.8%

18) 0.4%

19) 36.7%

20) 93%

**Round to ONE decimal place.**

21) 0.15

22) 2.3185

23) 3.857

24) 5.98

**Round to TWO decimal places.**

25) 0.7926

26) 7.79798

27) 2.75755

28) 3.7156

**Round to THREE decimal places.**

29) 4.3741

30) 5.7194

31) 3.2417

32) 4.6269

Round to FOUR decimal places.

33) 5.55592

34) 7.34495

35) 8.890276

36) 5.037473

Find the mean (= the average) for each data set. Use a calculator.

37)

Test Scores

47 49 48 46 52 43 40  
45 51

38)

Annual Precipitation (Inches)

65.4 5.8 31 19.2 55 38.4  
64.8 40.2 22 62.8 19.4

Find the median for each data set. Use a calculator or order the numbers and find the middle value.

39)

Games per World Series

5 6 7 7 7 4 7 4  
4 4 4 5 7 6 7 5

40)

Shoe Size

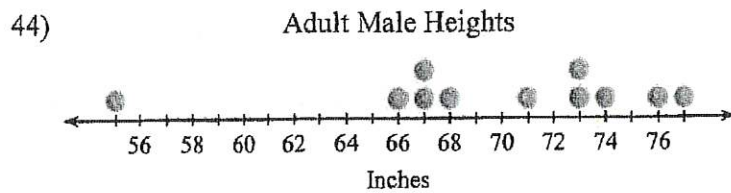
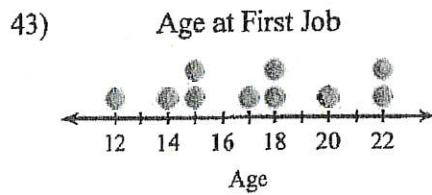
8.5 6.5 8 9 7 9.5 9  
8.5 7.5 6 7 6 9 8  
9.5

Find the range for each data set. Use a calculator or just figure it out.

- 41) Minutes to Run 5km
- |      |      |      |      |      |
|------|------|------|------|------|
| 32.6 | 28.6 | 27.2 | 43   | 22.1 |
| 33.4 | 19   | 28   | 23   | 25.4 |
| 39.9 | 18.3 | 34.5 | 19.6 | 42.1 |
| 40.8 |      |      |      |      |

- 42) Goals in a Hockey Game
- |   |   |   |    |   |   |   |   |
|---|---|---|----|---|---|---|---|
| 3 | 6 | 5 | 10 | 8 | 5 | 5 | 5 |
| 5 | 5 | 6 | 7  | 5 | 5 | 5 | 7 |
| 5 |   |   |    |   |   |   |   |

Find the mean for each data set. Use a calculator.



45) Hours Slept

| Hours | Frequency |
|-------|-----------|
| 4.5   | 1         |
| 5.75  | 1         |
| 6     | 1         |
| 6.25  | 2         |
| 6.5   | 2         |
| 7     | 4         |
| 7.5   | 2         |
| 7.75  | 2         |
| 8     | 1         |
| 8.25  | 1         |

46) Length of Book Titles

| # Words | Frequency |
|---------|-----------|
| 1       | 2         |
| 2       | 5         |
| 3       | 2         |
| 4       | 5         |
| 5       | 1         |

Draw a dotplot (like the given plots in 43 and 44 above) for each data set.

47) Shoe Size

7 7 7 8 8 8 9  
 9 9 9 9 10 10 10  
 11

48)

## Average Lifespan

| Animal        | Years | Animal     | Years | Animal  | Years | Animal          | Years | Animal       | Years |
|---------------|-------|------------|-------|---------|-------|-----------------|-------|--------------|-------|
| American Newt | 3     | Kangaroo   | 9     | Wombat  | 15    | Chinchilla      | 20    | Tiger        | 22    |
| Leopard Frog  | 6     | Cottontail | 10    | Nutria  | 15    | Beaver          | 20    | Congo Eel    | 27    |
| Rabbit        | 9     | Tree Frog  | 14    | Leopard | 17    | Eclectus Parrot | 20    | Hippopotamus | 45    |

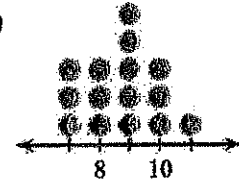
Write each number in standard notation, that is, as a decimal without the power of 10.

49)  $5.18 \times 10^{-4}$

50)  $6.3 \times 10^{-5}$

# Answers to SUMMER PACKET (HW #1)

- |            |            |           |           |
|------------|------------|-----------|-----------|
| 1) 20%     | 3) 40%     | 5) 71%    | 7) 57.3%  |
| 9) 74%     | 11) 0.51   | 13) 0.68  | 15) 0.02  |
| 17) 0.698  | 19) 0.367  | 21) 0.2   | 23) 3.9   |
| 25) 0.79   | 27) 2.76   | 29) 4.374 | 31) 3.242 |
| 33) 5.5559 | 35) 8.8903 | 37) 46.78 | 39) 5.5   |
| 41) 24.7   | 43) 17.3   | 45) 6.85  | 47)       |



49) 0.000518