

The Summer Packet for STATISTICS!

Hello 2024-2025 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

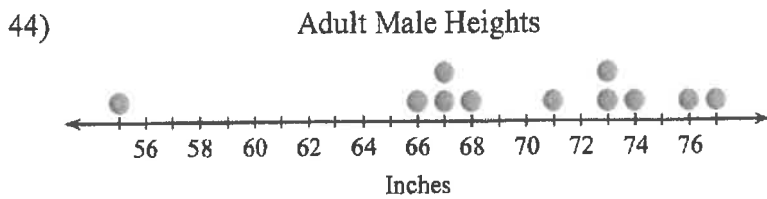
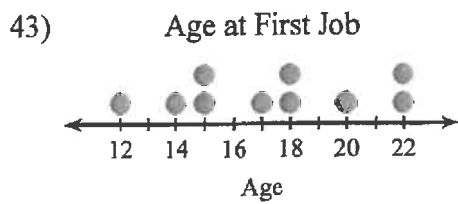
40) Shoe Size
8.5 6.5 8 9 7 9.5 9
8.5 7.5 6 7 6 9 8
9.5

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) 5.18×10^{-4}

50) 6.3×10^{-5}

Answers to SUMMER PACKET (HW #1)

1) 20%

9) 74%

17) 0.698

25) 0.79

33) 5.5559

41) 24.7

3) 40%

11) 0.51

19) 0.367

27) 2.76

35) 8.8903

43) 17.3

5) 71%

13) 0.68

21) 0.2

29) 4.374

37) 46.78

45) 6.85

7) 57.3%

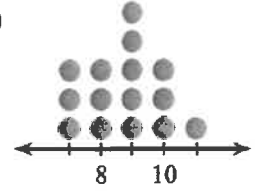
15) 0.02

23) 3.9

31) 3.242

39) 5.5

47)



49) 0.000518