

Lesson 8: Word Questions Sept 15th, 2022

When to Calculate the Average

* 1 key word: Average.
(what's normal)

Definition: Average: the middle data point of a group of data.

example 1: You got 70% on one exam and 74% on another exam.
72%
What was your average?
On average, how well did you do?

example 2: You got 70%, 74% and 78%.
What's your average?

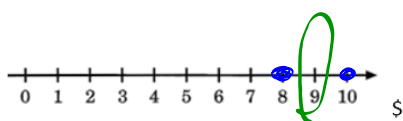
How to calculate the average:

Add up all data points and divide by the # of data points. (number)

$$\text{Avg} = (70 + 74 + 78) \div 3$$

$$\text{Avg} = 74\%$$

1. Sara saved 10\$ each week and Dana saved 8\$/week. Altogether, on average, how much did each person save?



↑
 • in the middle
 ∴ 9 is average

$$\text{Avg} = (10 + 8) \div 2$$

$$\text{Avg} = 9 \text{ \$/week}$$

HMWK:

Finish handout.

Step i Find both (data) numbers on # line.

Step ii Find # in the middle of those numbers

Step iii: Confirm answer \bar{x} equation *make sure to point units.*

$$\text{Avg} = (x_1 + x_2) \div 2$$

$$\text{Avg} = (x_1 + x_2 + x_3) \div 3$$

$$\text{Avg} = (x_1 + x_2 + x_3 + x_4) \div 4$$

$$\text{Avg} = (x_1 + x_2 + \dots + x_n) \div n$$