

24.9.15

Red Numbers

Statistics

Dealing with ANALYZING DATA

a set of numbers

3 MEASURES of DATA

MEAN - the average of the numbers

MEDIAN - The number in the middle (or the average of the two middle numbers)

MODE - The number "which shows up the most"
↳ with the highest frequency

Find the mean, median, mode, and range for each set of data.

7. 21, 25, 27, 26, 25

8. 13, 21, 16, 25, 18, 28, 32, 31

9. 8, 16, 28, 41, 16, 11, 8

7 mean:
$$\frac{21 + 25 + 27 + 26 + 25}{5} = 24.2$$

median: 21 25 ^① 25 ^① 26 27

25 is mode

write numbers
in order (smallest to biggest)

RANGE: $27 - 21$

$= 6$

9. mean
$$\frac{8 + 16 + 28 + 41 + 16 + 11 + 8}{7} = 18.285714$$

 $= 18.3$

median: 8 8 11 16 16 28 41

mode: 16 AND 8

range $41 - 8$
= 33.

Circle Graphs

A way of visualizing information (data)

1. The circle graph shows data on the suitability of land for farming.



Suitability of Land for Farming

a) Which 2 categories account for over half the land?

b) For every 500 ha of land, how many hectares are suitable for farming?

a) Too dry : Chemical Problems

b) $500 \times 0.11 = 55 \text{ ha.}$

3. The table shows the composition of municipal waste. Draw, label, and title a circle graph for these data.

Type of Waste	Percent
Paper	40
Yard Waste	18
Food Waste	12
Glass	8
Plastic	7
Steel	7
Other	8

$$0.4 \times 360 = 144^\circ$$

$$0.18 \times 360 = 65^\circ$$

$$0.12 \times 360 = 43^\circ$$

$$0.08 \times 360 = 29^\circ$$

$$0.07 \times 360 = 25^\circ$$



