Do Now:

1.) (16 + 8) / 2

2.) 29.3 - 7.2

3.) -3200 - 2400

4.) 45 ÷ 10

Do Now: (Do Not Copy)

1. Cesar has 5.375 pounds of hamburger for a cookout. He wants to make quarter-pound (0.25 pound) hamburger patties. How many patties can he make?

21.5 patties

2. Payton wants to mail a first class letter. The cost is $0.37 for the first ounce and $0.23 for every ounce after that. How much will it cost to mail a letter that weighs 15 ounces? $3.59

5.8 Mean, Median, Mode

7.NS
7.EE

- SWBAT describe data sets using mean, median, mode, and range.
- SWBAT collect, organize, and display data.
- Calculators: No

mean(the average)- the sum of the values divided by the number of values

median(the middle)- the middle value when the values are written in numerical order

mode(the most)- the value that occurs the most

range- the difference of the greatest value and the smallest value

A marine biologist records the following locations of 6 deep sea jellyfish in relation to the ocean's surface: -2278 feet, -1875 feet, -3210 feet, -2755 feet, -2407 feet and -2901 feet. What is the mean?

Find the mean of the data. average

-3℃, 44℃, −11℃, 9℃, −21℃ → 5 numbers

$$\frac{-3+44+(-11)+9+(-21)}{5} = \frac{18}{5}$$

$\frac{18}{5}$ $5\overline{)18.0}$ 3.6

-15

30

-30

0

Mean = 3.6°C

Find the mean of:

5x, 2x, 7x, -2x, -4x, 7x, and -x → 7 total numbers

$5x+2x+7x+7x = 21x$

$-2x+(-4x)+(-x) = -7x$

$21x+(-7x) = 14x$

$\text{Mean} = \frac{14x}{7} = \frac{2x}{1} = 2x$

Find the median, mode and ranges of the prices:

$7.20, $13.25, $14.94, $16.56, $18.74, $19.99, $19.99, $29.49

Median (middle) $= \frac{18.74+16.56}{2} = \frac{35.30}{2}$

$= \$17.65$

Mode (Most) = $19.99

Range = $29.49 - 7.20 = 22.29$ → $22.29

Find the median, mode and ranges of the elevations:

127 ft, -8 ft, 436 ft, 508 ft, -23 ft, 47 ft, 23 ft

-23 ft, -8 ft, 23 ft, 47 ft, 127 ft, 436 ft, 508 ft

Median = 47 ft

Mode = None

Range = 508 − (−23)

508 + 23

531 ft

Groups A and B try a new ice cream flavor and rate it on a scale of 1 to 10 as shown. Find the mean, median, and mode. Which average best represents each group?

Group A Ratings
1, 2, 3, 3, 5, 5, 5, 7, 8, 10

4.9 5

Mean: 4.9
Median: 5
Mode: 5

Group B Ratings
1, 1, 1, 2, 3, 4, 4, 9, 10, 10

1 3.5 4.5

Mean: 4.5
Median: 3.5
Mode: 1

Group A Ratings
1, 2, 3, 3, 5, 5, 5, 7, 8, 10

Group B Ratings
1, 1, 1, 2, 3, 4, 4, 9, 10, 10

Exit Pass 5.8

Name the mean, median, mode, and range of the number of people per family:

7, 4, 3, 2, 6, 4, 5, 2, 3, 4

"Don't blame the sea if you cannot catch a fish."

Working individually or with a partner, complete the workbook.

Workbook pg.

Reflection of Today's Lesson

5.8 Mean, Median, Mode

7.NS
7.EE

- SWBAT describe data sets using mean, median, mode, and range.
- SWBAT collect, organize, and display data.
- Calculators: No

Homework

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