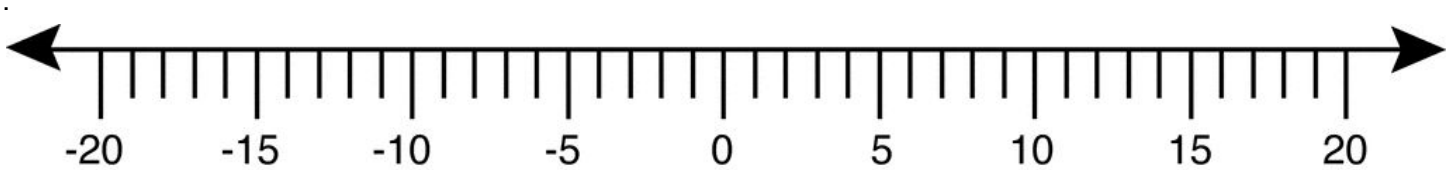1. a) Define: "absolute value"

    b) Simplify: $|-9+7|$ and plot the result on the number line below.

    c) Simplify: (9 + 7) and plot the result on the number line below.

.

$\xleftarrow{\hspace{1cm}}$ |||||||||||||||||||||||||||||||||||||||||||||||||| $\xrightarrow{\hspace{1cm}}$

-20   -15   -10   -5   0   5   10   15   20

    d) Complete the number sentence using < or > or = : $|-9+7|$ (9 + 7)

2. Sarah put on an extra pound over Rosh Hashanah but lost two pounds over Yom Kippur. She then gained four pounds over Sukkos. She went on a diet and lost two pounds the first week and one pound the second week.

    a. Write an equation showing how her weight changed.

    b. Solve it to find how much she gained or lost overall.

3. a) Estimate the sum: 45,987 + 23,345 ≈

    b) Calculate the exact sum: 45,987 + 23,345 =

4. a) Find the sum: 0.083 + 5,479 + 1.15 +547 +0.001 =

    b) Find the sum: -91,312 + 16, 425 =

5. a) Name the property illustrated: (-75) + 41 + (-62) + 12 = (-75) + (-62) + 41 + 12

    b) Solve: (-75) + 41 + (-62) + 12 =