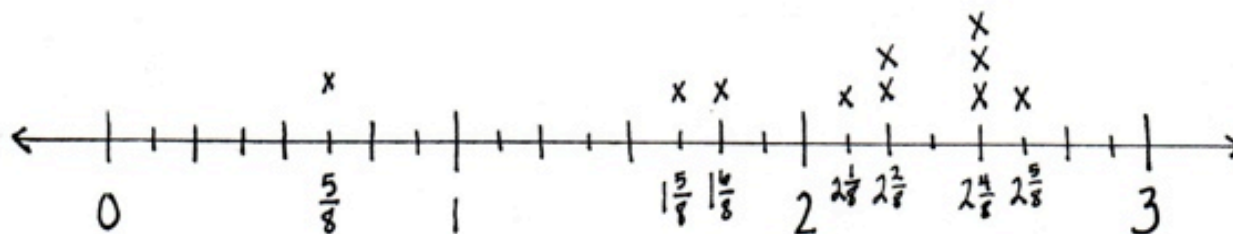


Name Jack

Date _____

1. The chart to the right shows the distance 4th graders in Ms. Smith's class were able to run before stopping for a rest. Create a line plot to display the data in the table.

Student	Distance (in miles)
Joe	$2\frac{1}{2}$
Arianna	$1\frac{3}{4}$
Bobbi	$2\frac{1}{8}$
Morgan	$1\frac{5}{8}$
Jack	$2\frac{5}{8}$
Saisha	$2\frac{1}{4}$
Tyler	$2\frac{2}{4}$
Jenny	$\frac{5}{8}$
Anson	$2\frac{2}{8}$
Chandra	$2\frac{4}{8}$



2. Solve each problem.

a. Who ran a mile further than Jenny?

$$\frac{5}{8} + 1 = 1\frac{5}{8} \quad \text{Morgan}$$

b. Who ran a mile less than Jack?

$$2\frac{5}{8} - 1 = 1\frac{5}{8} \quad \text{Morgan}$$

c. Two students ran exactly $2\frac{1}{4}$ miles. Identify the students. How many quarter miles did each student run?

Saisha and Anson. $2\frac{1}{4} = \frac{9}{4}$ They ran 9 quarter miles.

d. What is the difference, in miles, between the longest and shortest distance run?

$$2\frac{5}{8} - \frac{5}{8} = 2 \quad \text{2 miles is the distance between the longest and shortest run.}$$

e. Compare the distances run by Arianna and Morgan using $>$, $<$, or $=$.

$$1\frac{3}{4} > 1\frac{5}{8} \quad 1\frac{3}{4} = 1\frac{6}{8} \quad \text{Arianna ran further.}$$

f. Ms. Smith ran twice as far as Jenny. How far did Ms. Smith run? Write her distance as a mixed number.

$$2 \times \frac{5}{8} = \frac{10}{8} = 1\frac{2}{8} \quad \text{Ms. Smith ran } 1\frac{2}{8} \text{ miles.}$$

g. Mr. Reynolds ran $1\frac{3}{10}$ miles. Use $>$, $<$, or $=$ to compare the distance Mr. Reynolds ran to the distance that Ms. Smith ran. Who ran further?

Mr. Reynolds ran further. $1\frac{3}{10} > 1\frac{2}{8}$

$$\frac{3}{10} = \frac{3 \times 4}{10 \times 4} = \frac{12}{40}$$

$$\frac{2}{8} = \frac{2 \times 5}{8 \times 5} = \frac{10}{40}$$

3. Using the information in the table and on the line plot, develop and write a question similar to those above. Solve and then ask your partner to solve. Did you solve in the same way? Did you get the same answer?

How much further did Jack need to run to reach 3 miles?

$$\frac{5}{8} \xrightarrow{+\frac{3}{8}} 1 \quad \frac{3}{8} \text{ more miles.}$$

My partner counted on the line plot. She got the same answer as me!