

Name Jack

Date _____

1. The chart to the right shows the height of some football players. Use the data to create a line plot at the bottom of this page and to answer the questions below.

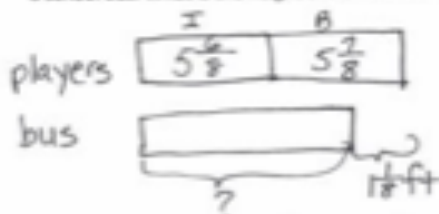
Player	Height (in feet)
A	$6\frac{1}{4}$
B	$5\frac{7}{8}$
C	$6\frac{1}{2}$
D	$6\frac{1}{4}$
E	$6\frac{2}{8}$
F	$5\frac{7}{8}$
G	$6\frac{1}{8}$
H	$6\frac{5}{8}$
I	$5\frac{6}{8}$
J	$6\frac{1}{8}$

- a. What is the difference in height of the tallest and shortest player?

$+ \boxed{6\frac{3}{8}}$
 $- \boxed{5\frac{6}{8}}$
 \hline
 $6\frac{5}{8} - 5\frac{6}{8} = 1\frac{5}{8} - \frac{6}{8} = \frac{13}{8} = 1\frac{5}{8}$

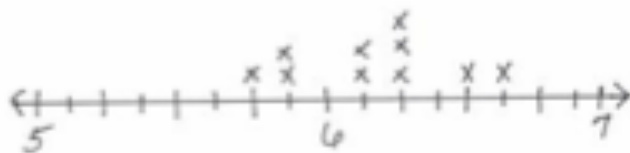
The difference in height between the tallest and the shortest player is $1\frac{5}{8}$ ft.

- b. Player I and Player B have a combined height that is $1\frac{1}{8}$ feet taller than a school bus. What is the height of a school bus?



$5\frac{6}{8} + 5\frac{7}{8} = 10\frac{13}{8} = 11\frac{5}{8}$
 $11\frac{5}{8} - 1\frac{1}{8} = 10\frac{4}{8} = 10\frac{1}{2}$

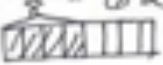
The bus has a height of $10\frac{1}{2}$ ft.



2. One of the players on the team is now 4 times as tall as he was at birth when he measured $1\frac{5}{8}$ feet. Who is the player?

birth $1\frac{5}{8}$

now $1\frac{5}{8}$ $1\frac{5}{8}$ $1\frac{5}{8}$ $1\frac{5}{8}$

$$\begin{aligned} 4 \times 1\frac{5}{8} &= 4 + \frac{20}{8} \\ &= 4 + 2\frac{4}{8} \\ &= 6\frac{4}{8} \\ &= 6\frac{1}{2} \end{aligned}$$


Player C was $1\frac{5}{8}$ ft at birth.

3. Six of the players on the team weigh over 300 pounds. Doctors recommend that players of this size drink at least $3\frac{3}{4}$ quarts of water each day. At least how much water should be consumed per day by all 6 players?

$$6 \times 3\frac{3}{4} = \frac{6 \times 15}{4} = \frac{90}{4} = 22\frac{2}{4}$$

All 6 players should consume $22\frac{2}{4}$ quarts of water

4. Nine of the players on the team weigh about 200 pounds. Doctors recommend that people of this weight each eat about $7\frac{7}{10}$ grams of protein per pound each day. About how many combined grams of protein should these 9 players eat per day?

$$\begin{aligned} 9 \times 7\frac{7}{10} &= (9 \times 7) + (9 \times \frac{7}{10}) \\ &= 63 + \frac{9 \times 7}{10} \\ &= 63 + \frac{63}{10} \\ &= 69\frac{3}{10} \end{aligned}$$

The 9 players should eat a combined $69\frac{3}{10}$ grams of protein per day.