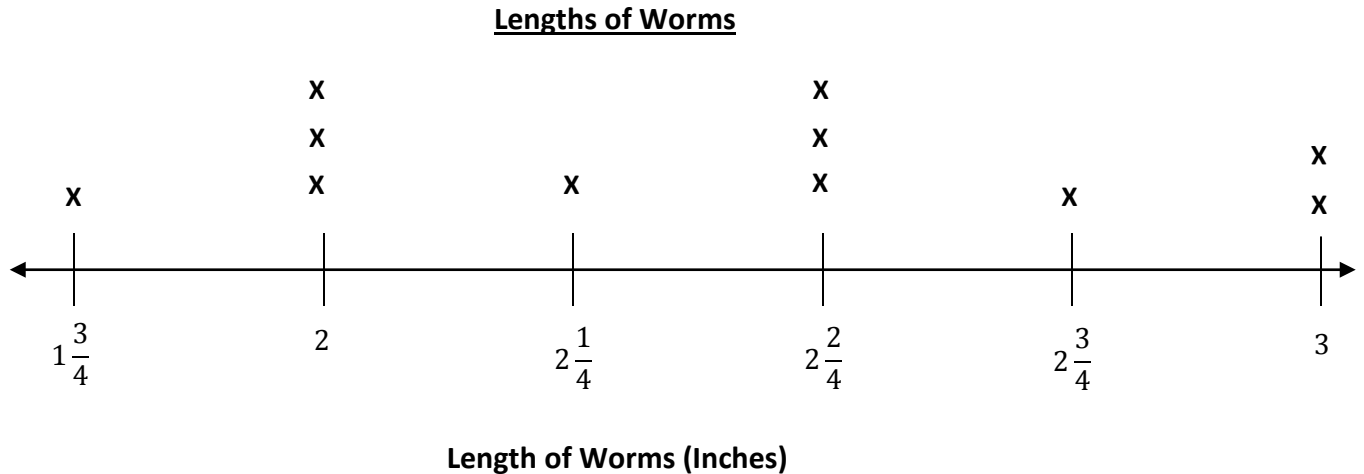


Name: _____ Date: _____

Answer the questions by using the line plot.

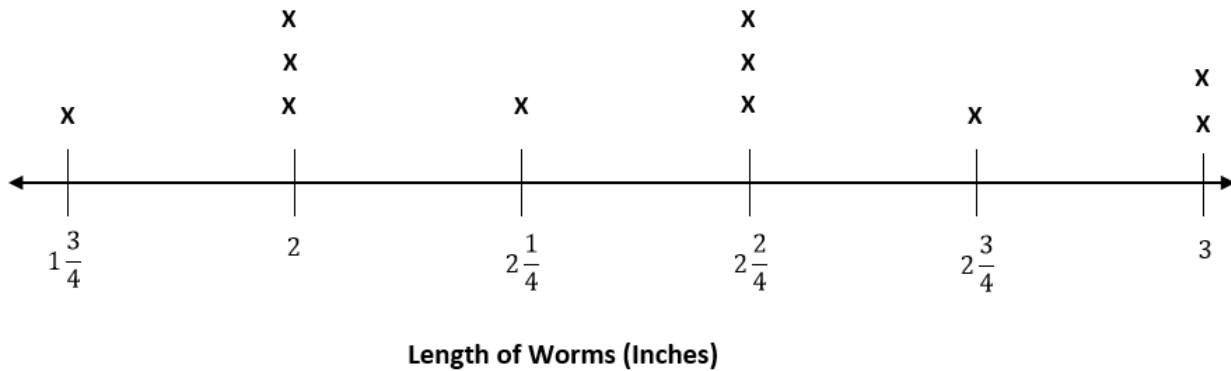
Jennifer likes to dig up earthworms. The line plot below shows the lengths of the worms that she collected.



1. What is the combined length of the longest worms that Jennifer found, if they were connected end-to-end?
2. How much longer is longest worm than the shortest worm?
3. What is the average length of each worm, if they were cut into pieces of equal length?
4. How many worms did Jennifer collect altogether?
5. How many times longer is the longest worm than the shortest worm?

Name: _____ Date: _____

Lengths of Worms



1. What is the combined length of the longest worms that Jennifer found, if they were connected end-to-end?

$$1\frac{3}{4} + 6 + 2\frac{1}{4} + (2\frac{2}{4} \times 3) + 2\frac{3}{4} + 6$$

$$10 + 6 + \frac{6}{4} + 8\frac{3}{4} = 24\frac{9}{4} = 26\frac{1}{4} \text{ inches}$$

2. How much longer is longest worm than the shortest worm?

$$3 - 1\frac{3}{4} = 1\frac{1}{4} \text{ inches}$$

3. What is the average length of each worm, if they were cut into pieces of equal length?

$$26\frac{1}{4} \div 11 = 26\frac{1}{4} \times \frac{1}{11} = (26 \times \frac{1}{11}) + (\frac{1}{4} \times \frac{1}{11})$$

$$= \frac{26}{11} + \frac{1}{44} = \frac{104}{44} + \frac{1}{44} = \frac{105}{44} = 2\frac{17}{44} \text{ inches}$$

4. How many worms did Jennifer collect altogether?

11 worms

5. How many times longer is the longest worm than the shortest worm?

$$3 \div 1\frac{3}{4} = \frac{3}{1} \times \frac{4}{7} = \frac{12}{7} = 1\frac{5}{7} \text{ times longer}$$