DraftKids
Learn through sports

PRINTABLE · GRADES 3-5 · AGES 8–11

Turkey Bowl Line Plots

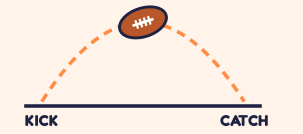
The Cedar Falls Foxes punted 12 times in their Thanksgiving week Turkey Bowl game. A punt's **hang time** is how long it stays in the air, from the kick until it is caught or lands. Use the line plot to answer each question.

Name _____

Date _____

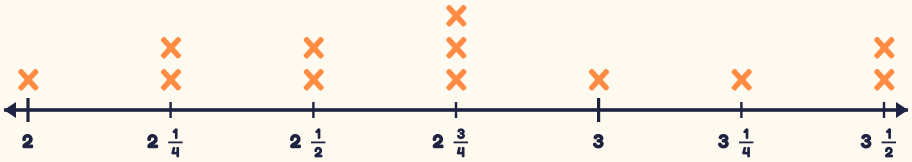
LINE PLOT TOOLKIT

1 ✕	4 jumps	Tallest stack	Longest – shortest	Total ÷ count
stands for 1 punt	make 1 second (each jump = ¼ s)	is the time that happened most	tells how far apart they are	is the fair share



HANG TIME = SECONDS IN THE AIR

CEDAR FALLS FOXES · TURKEY BOWL PUNTS



HANG TIME (SECONDS)

Coach Ortiz timed every Foxes punt with a stopwatch, to the nearest $\frac{1}{4}$ **second**.

Each ✕ is one punt. Count the X's above a number to see how many punts hung that long.

ROOKIE

1 How many punts did the Foxes kick in the Turkey Bowl?

WORK SPACE

_____ **punts**

ROOKIE

2 What hang time happened **most often**?

WORK SPACE

_____ **seconds**

STARTER

3 How many punts stayed in the air **3 seconds or longer**?

WORK SPACE

_____ **punts**

STARTER

4 How many punts had a hang time **shorter than $2\frac{1}{2}$ seconds**?

WORK SPACE

_____ **punts**

PRO

5 How much longer was the longest punt than the shortest punt?

WORK SPACE

_____ **seconds**

PRO

6 Add the hang times of all the $2\frac{1}{2}$-second punts. What is the total?

WORK SPACE

_____ **seconds**

ALL-STAR

7 Add the hang times of every punt that hung $3\frac{1}{4}$ seconds or longer.

WORK SPACE

_____ **seconds**

CHALLENGE ★

8 Challenge: Find the total hang time of all the punts. If that total were shared **equally** by every punt, how long would each one hang?

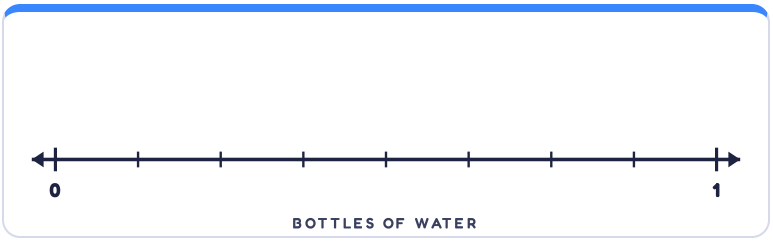
WORK SPACE

total _____ **s** **each** _____ **s**

A Halftime Water Plot

12 Foxes drank from their water bottles at halftime. Label every tick, then make an X for each player.

Ava $\frac{3}{4}$	Ben $\frac{1}{2}$	Cruz $\frac{3}{8}$	Dev $\frac{3}{4}$	Eli $\frac{5}{8}$	Finn $\frac{1}{2}$
Gia 1	Hugo $\frac{3}{4}$	Iris $\frac{1}{4}$	Jay $\frac{7}{8}$	Kai $\frac{1}{2}$	Lena $\frac{3}{4}$



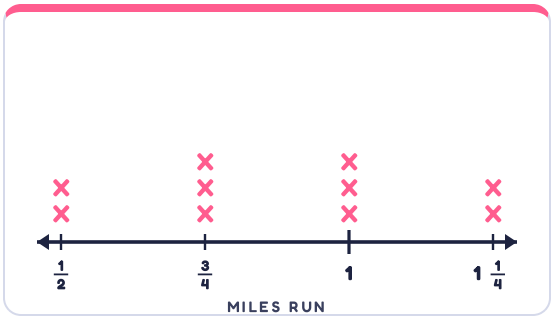
1. How many players drank **exactly** $\frac{3}{4}$ of a bottle?
   _____ **players**
2. How many players drank **more than** $\frac{1}{2}$ of a bottle?
   _____ **players**
3. Add up the water drunk by the players in #1. How much is it?
   _____ **bottles**
4. How much more did the thirstiest player drink than the least thirsty?
   _____ **bottle**

B Spot the Mistakes

The Riverbend Rams' team manager made a line plot of the miles 10 players ran at practice. Two stacks are wrong.

MILES RUN

$\frac{1}{2}$	$\frac{3}{4}$
1	$\frac{3}{4}$
$1\frac{1}{4}$	$\frac{1}{2}$
$\frac{3}{4}$	1
1	$\frac{1}{2}$



1. Which distance has **too few** X's?
   _____ **mile**
2. Which distance has **too many** X's?
   _____ **miles**
3. Fix the plot in your head. How many miles did the 10 Rams run **altogether**?
   _____ **miles**

C Fair Share

Find the total, then divide it equally. It is like leveling off the stacks so they are all the same height.

1. Four linemen drank $\frac{1}{2}$, $\frac{3}{4}$, $\frac{3}{4}$ and 1 bottle. If they poured it all together and shared it **equally**, how much would each get?
   _____ **bottle**
2. Five receivers ran $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$, 1 and $1\frac{1}{4}$ miles. What is the fair share for each?
   _____ **mile**
3. True or false? If the Foxes add one more punt that hangs $2\frac{3}{4}$ seconds, the fair share from page 1 stays the same. Explain.
   _____



BONUS · NOT SCORED

With a partner, toss a soft ball high 8 times while the other person times it to the nearest ¼ second. Make a line plot of your hang times.

Answer Key (for teachers & parents)

Answers for **Turkey Bowl Line Plots**, with the work shown. Print pages 1 and 2 for students and keep this page for checking. Hang time is measured from the kick until the ball is caught or lands. Teams and players are made up.

Page 1 Problems

1. Answer: **12 punts**
   1 + 2 + 2 + 3 + 1 + 1 + 2 = 12 X's
2. Answer: **$2\frac{3}{4}$ seconds**
   the tallest stack (3 X's)
3. Answer: **4 punts**
   3 s (1) + 3¼ s (1) + 3½ s (2)
4. Answer: **3 punts**
   2 s (1) + 2¼ s (2)
5. Answer: **$1\frac{1}{2}$ seconds**
   3½ − 2 = 1½
6. Answer: **5 seconds**
   2½ + 2½ = 5
7. Answer: **$10\frac{1}{4}$ seconds**
   3¼ + 3½ + 3½ = 10¼
8. Answer: **Total 33 s; each $2\frac{3}{4}$ s**
   2 + 4½ + 5 + 8¼ + 3 + 3¼ + 7 = 33; 33 ÷ 12 = 2¾

A · Halftime Water Plot

Plot (2 pts): ticks labeled in eighths; X's: ¼ (1), $\frac{3}{8}$ (1), ½ (3), $\frac{5}{8}$ (1), ¾ (4), $\frac{7}{8}$ (1), 1 (1)



1. Answer: **4 players**
2. Answer: **7 players**
   $\frac{5}{8}$, ¾ ×4, $\frac{7}{8}$ and 1
3. Answer: **3 bottles**
   ¾ + ¾ + ¾ + ¾ = 12/4 = 3
4. Answer: **$\frac{3}{4}$ bottle**
   1 − ¼ = ¾

Quick score

Page 1 problems (#8 = 2)	_____ / 9
A · Plot (2) + 4 questions	_____ / 6
B · Spot the Mistakes	_____ / 3
C · Fair Share	_____ / 3
Total	**_____ / 21**

Skills practiced

Reading line plots · Making line plots · Fractions on a number line · Adding fractions · Subtracting fractions · Multiplying a fraction by a whole number · Fair share · Error analysis

Teaching tip: For Fair Share, stack cubes for each value and "level off" the towers. Kids see that the total stays the same while every tower ends up the same height.

B · Spot the Mistakes

1. Answer: **½ mile**
   list has 3, plot shows 2
2. Answer: **1¼ miles**
   list has 1, plot shows 2
3. Answer: **8 miles**
   1½ + 2¼ + 3 + 1¼ = 8

C · Fair Share

1. Answer: **$\frac{3}{4}$ bottle**
   total 3; 3 ÷ 4 = ¾
2. Answer: **$\frac{3}{4}$ mile**
   total 3¾ = 15/4; 15/4 ÷ 5 = ¾
3. Answer: **True**
   33 + 2¾ = 35¾ and 35¾ ÷ 13 = 2¾. Adding a value equal to the fair share keeps it the same.

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