

Grade 3 · Scaled Graphs and Line Plots · Test

Common Core 3.MD.B.3, 3.MD.B.4 · mathovore.fr

Name: _____ Date: ____/____/____ Score: _____

This 45 minute test checks scaled picture graphs, scaled bar graphs, measuring with a ruler marked in halves and fourths of an inch, and line plots. Read each key and scale carefully. Show your work and write the unit in every answer. There are 8 questions worth 20 points.

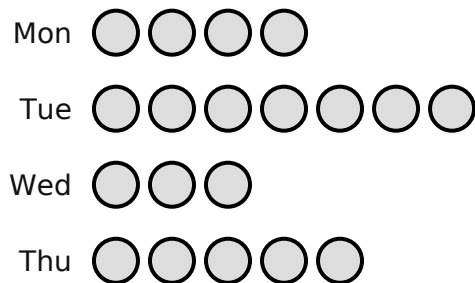
Test information

- **Grade:** Grade 3
- **Chapter:** Scaled Graphs and Line Plots
- **Common Core:** 3.MD.B.3, 3.MD.B.4
- **Time:** 45 minutes
- **Total:** 20 points (Question 1: 3 pts; Question 2: 3 pts; Question 3: 2 pts; Question 4: 2 pts; Question 5: 3 pts; Question 6: 2 pts; Question 7: 2 pts; Question 8: 3 pts)

Question 1: Pumpkin sales (3 points)

Each circle stands for 5 pumpkins sold at a farm stand.

Pumpkins Sold



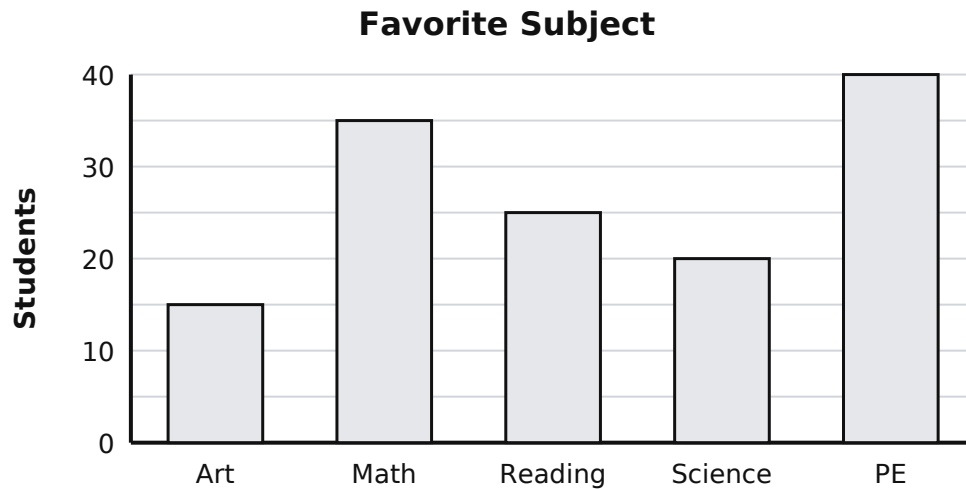
 **Key: each circle = 5 pumpkins**

Picture graph for Question 1.

- How many pumpkins were sold on Tuesday? (1 point)
- How many more pumpkins were sold on Tuesday than on Wednesday? (1 point)
- How many pumpkins were sold in all four days? (1 point)

Question 2: Favorite subjects (3 points)

The bar graph shows the favorite school subjects of a third grade class.

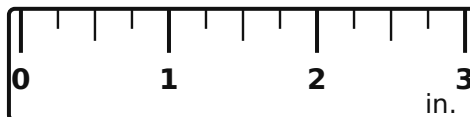


Bar graph for Question 2.

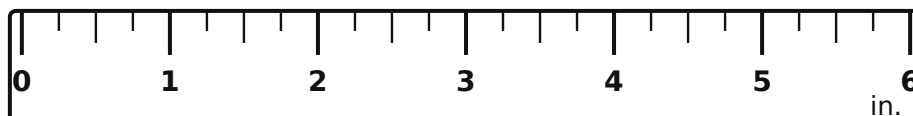
- How many students chose Science? (1 point)
- How many more students chose PE than Reading? (1 point)
- How many students were asked in all? (1 point)

Question 3: Two lengths (2 points)

Measure each object to the nearest fourth of an inch.



Ruler for Question 3, Object A.



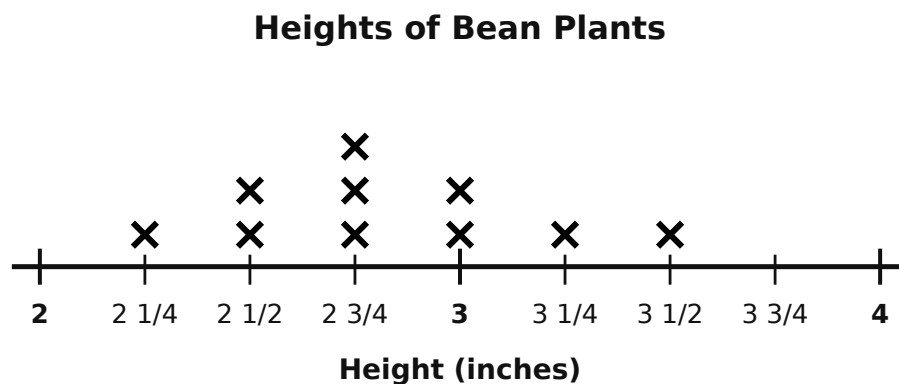
- The ribbon (1 point)
- The stick (1 point)

Question 4: Make a line plot (2 points)

Eight shells have these lengths in inches: $3\frac{1}{4}$, $3\frac{1}{2}$, $3\frac{1}{2}$, $3\frac{3}{4}$, 4, $3\frac{1}{2}$, $3\frac{3}{4}$, $4\frac{1}{4}$. Draw a line plot of the data. Use a number line from 3 to $4\frac{1}{2}$ marked in fourths.

Question 5: Plant heights (3 points)

The line plot shows the heights of 10 bean plants.



Line plot for Question 5.

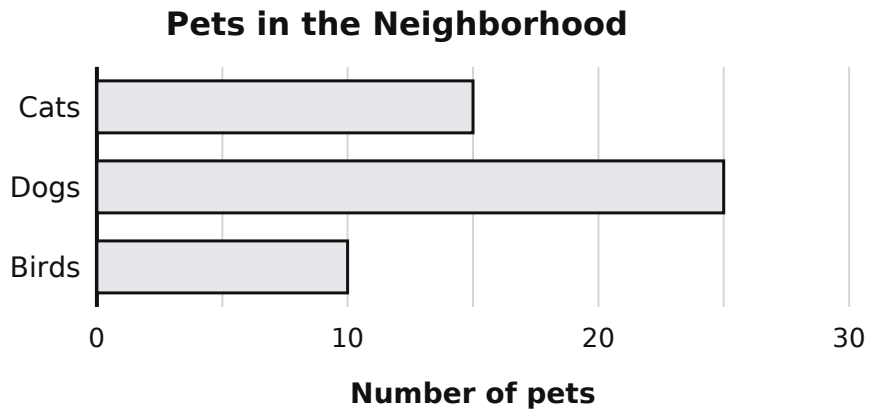
- How many plants are $2\frac{3}{4}$ inches tall? (1 point)
- How many plants are taller than 3 inches? (1 point)
- What is the most common height? (1 point)

Question 6: Sticker circles (2 points)

In a picture graph each circle stands for 8 stickers. Sofia's row has 3 whole circles and 1 half circle. Liam's row has 5 whole circles. How many more stickers does Liam have than Sofia?

Question 7: Pet counts (2 points)

The bar graph shows the pets in a neighborhood.



Bar graph for Question 7.

- a. How many pets are there in all? *(1 point)*
- b. How many fewer birds are there than dogs? *(1 point)*

Question 8: Graph squares (3 points)

Each square on a bar graph grid stands for 5 votes.

- a. The pizza bar is 9 squares tall. How many votes did pizza get? *(1 point)*
- b. The salad bar shows 30 votes. How many squares tall is it? *(1 point)*
- c. The taco bar is 7 squares tall. How many more votes did pizza get than tacos? *(1 point)*